



This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

### Usage guidelines

Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

- + *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.
- + *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.
- + *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.
- + *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

### About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at <http://books.google.com/>

Edue  
5325  
3

# Graduate Courses

1894-5

Edue 5325.3

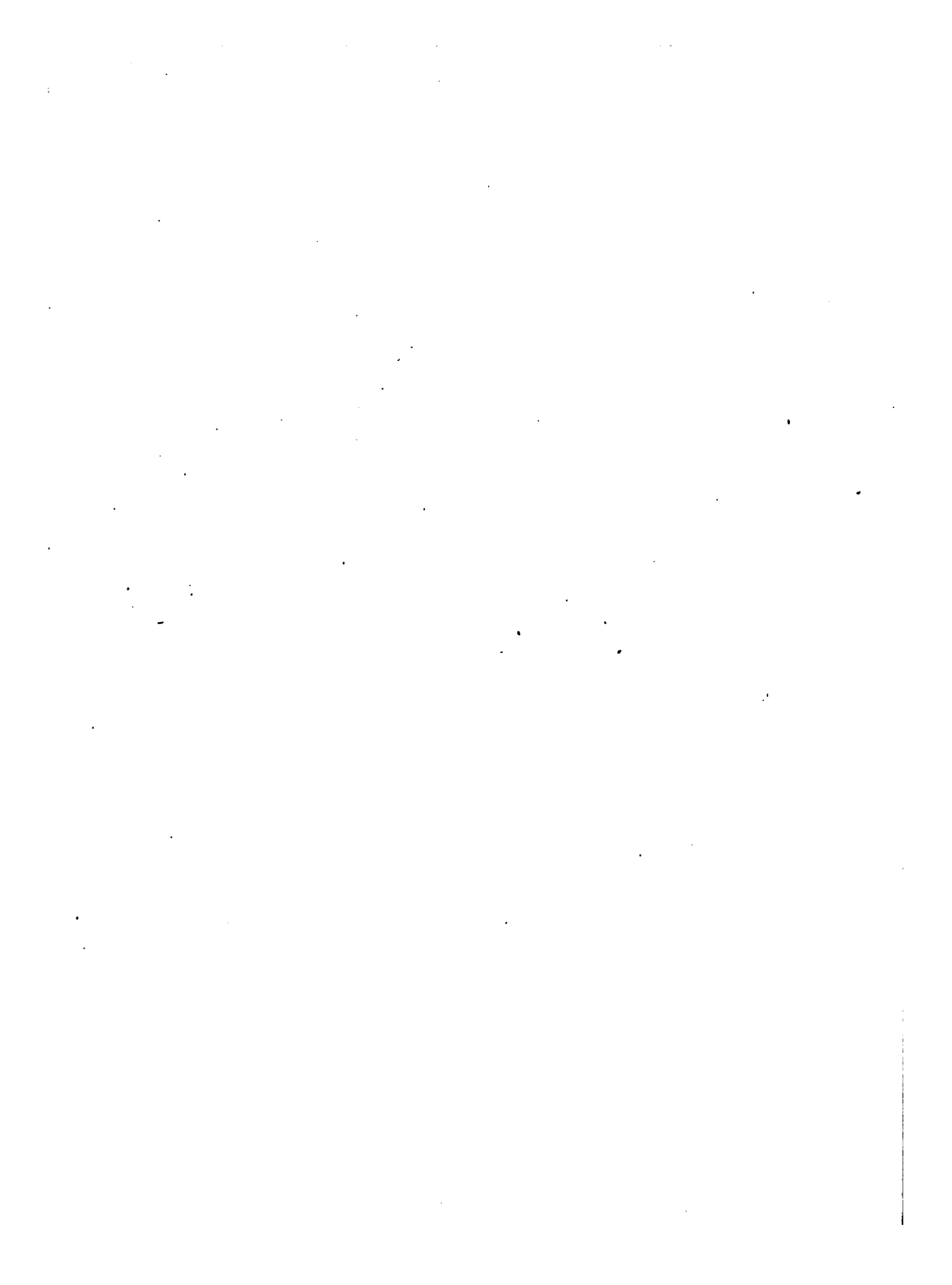


Harvard College Library

FROM

*Harvard Graduate Club.*

*15 Aug. 1894*





①

# GRADUATE COURSES

A HANDBOOK FOR GRADUATE STUDENTS

With a List of Advanced Courses announced by nineteen Colleges  
or Universities of the United States for the year

1894-95

COMPILED BY A  
COMMITTEE OF THE GRADUATE CLUB OF HARVARD

---

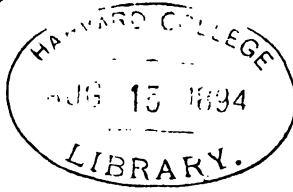
BOSTON:  
ALFRED MUDGE & SON, PRINTERS,  
No. 24 FRANKLIN STREET.  
1894.

~~Pr 3,309~~

~~Educ R 5427.1~~

Educ 5325.3

✓



*Harvard Graduate Club*

COMMITTEE ON PUBLICATION.

---

F. H. SAFFORD, CHAIRMAN.

W. H. SCHOFIELD.

H. E. BURTON.

J. H. BOYNTON.

E. T. BREWSTER.

C. A. DUNIWAY.

COPYRIGHT, 1894.

By HARVARD GRADUATE CLUB.

---

ALL RIGHTS RESERVED.

## P R E F A C E.

---

THE reception given the first edition of *Graduate Courses* was so favorable that the Harvard Graduate Club decided, with but little hesitation, to continue its publication. The committee appointed for this purpose passed at the first meeting the following resolutions affecting the scope and circulation of the new volume.

1. That the number of universities represented be increased to nineteen, to include in addition to those in the first volume, Brown, California, Leland Stanford, jr., Minnesota, Radcliffe, Vanderbilt, Western Reserve and Wisconsin.

2. That, to extend greatly the influence of the book, and to put it within the reach of all who would be helped by it, one copy be sent free to every college in the United States and Canada; and the rest sold at a nominal price, ten cents, merely to cover the price of postage and handling.

3. That, to make possible this free distribution, the Graduate Clubs, or authorities of the different universities, be asked to pledge sums of varying sizes to cover any deficit which might occur.

To these changes the different universities readily agreed, and, with more or less promptness, sent on the material for compilation. In nearly every case, also, the guarantee of financial aid was willingly given.

With the help thus afforded, the editors of this volume have aimed to present in a clear and concise form a comparative list of the courses suited for graduates in the leading colleges of the United States. In addition to this list of courses is given the academic history and publications of all instructors who were willing to reply to the circulars which were sent out. In some cases instructors have asked to have their scholastic record entirely omitted.

It is not intended that the publication should take the place of the different university circulars, which should be consulted for further and



more detailed information; but it is expected that it will afford a ready means for an interesting and useful comparison of what is being done in the same department in different universities. It is hoped that this comparison may stimulate each university to maintain the highest possible standard in all its work.

It will be noted that an index of all instructors has been added, and that the page giving the number of graduate students, the number of degrees, and the requirements for the Ph. D. degree, has been omitted, the practices of the several universities in regard to standards of admission and the like being so different that wrong inferences were thought to be inevitable.

This year the whole work of printing and editing has fallen on the shoulders of a few members of the Harvard Graduate Club, who, without any prospect of remuneration, were willing to undertake the task. If, as seems almost certain, the yearly publication of a similar volume is to be calculated upon, and if the work is in time to be the established source of information for all prospective graduate students, some more satisfactory arrangement will have to be made. By beginning work earlier, obtaining the aid of the other Graduate Clubs to a greater extent, and profiting by the experience of this year, it is hoped that mistakes will be avoided in the future.

The editors regret that there has been some delay in the appearance of the present volume. This has been largely due to the extreme tardiness of two or three universities in sending necessary information. On the whole, however, assistance has been given promptly and willingly by the Graduate Clubs or university authorities, of whose kindness and courtesy the editors desire to express their appreciation.

It may be well to say that the authorities of Harvard University have had nothing whatever to do with this publication. The Graduate Club undertook it with no other hope than that it might further the cause of graduate study in America.

For the benefit of those who shall edit this volume next year, criticisms and suggestions are invited. All communications should be addressed to C. A. Duniway, Secretary, Harvard Graduate Club.

# TABLE OF CONTENTS.

	PAGE
THE GRADUATE STUDENTS' CLUBS AND ASSOCIATIONS . . . . .	vii
AN ADDRESS TO THE GOVERNING BOARDS OF AMERICAN UNIVERSITIES . . . . .	ix
INTRODUCTION: DESCRIPTION OF THE UNIVERSITIES . . . . .	I
Brown . . . . .	I
Bryn Mawr . . . . .	2
California . . . . .	2
Chicago . . . . .	3
Clark . . . . .	4
Columbia . . . . .	4
Cornell . . . . .	5
Harvard . . . . .	6
Johns Hopkins . . . . .	8
Leland Stanford, Jr. . . . .	9
Michigan . . . . .	9
Minnesota . . . . .	10
Pennsylvania . . . . .	11
Princeton . . . . .	12
Radcliffe . . . . .	13
Vanderbilt . . . . .	14
Western Reserve . . . . .	14
Wisconsin . . . . .	15
Yale . . . . .	15
COURSES FOR WOMEN . . . . .	16
EXPLANATION OF SIGNS AND ABBREVIATIONS . . . . .	19

## GRADUATE COURSES.

### I. LANGUAGES AND LITERATURES.

1. Semitic, incl. Semitic History and Biblical Literature . . . . .	20
2. Indo-Iranian . . . . .	25
3. Classic . . . . .	27

## TABLE OF CONTENTS

	PAGE
4. English . . . . .	36
5. Germanic . . . . .	42
6. Romance . . . . .	46
7. Comparative, incl. languages not otherwise classified . . . . .	51
II. PHILOSOPHY, HISTORY AND THE FINE ARTS.	
8. Philosophy and Ethics . . . . .	52
9. Psychology and Pedagogics . . . . .	57
10. History and Politics . . . . .	60
11. Government and Law . . . . .	67
12. Economics . . . . .	70
13. Social Science, Anthropology and Ethnology . . . . .	74
14. Fine Arts and History of Art . . . . .	77
15. Theory of Music . . . . .	79
III. PURE SCIENCE.	
16. Mathematics . . . . .	80
17. Astronomy . . . . .	86
18. Physics . . . . .	89
19. Chemistry . . . . .	94
20. Biology, incl. Zoölogy and Botany . . . . .	99
21. Geology and Geography . . . . .	108
GRADUATE COURSES OF CORNELL UNIVERSITY . . . . .	113

## THE GRADUATE CLUBS.

---

There now exist Graduate Clubs at Brown, Bryn Mawr, Columbia, Cornell, Harvard, Johns Hopkins, Michigan, Pennsylvania, Radcliffe and Yale, the first being the one at Harvard, which was organized in February, 1889. Their object is "to bring together the advanced students in all lines of work, coming from all parts of the country, and educated under widely varying conditions, in such a way that they may be stimulated to a higher and broader intellectual life." They afford, moreover, a means of personal contact between the students and professors which can hardly be obtained in any other way, and which is highly appreciated on both sides. In most cases they have reception committees, whose pleasure it is to give information and advice of all kinds to students just entering the Graduate Schools, who may find themselves in need of such help. All the clubs are in hearty and cordial co-operation, and hope to be able to extend their congratulations to new clubs during the coming year. It is felt that every University doing graduate work is helped by having a Graduate Club.

The officers of these associations are as follows:

### ASSOCIATION OF GRADUATE STUDENTS OF BROWN UNIVERSITY.

#### *Executive Committee.*

*Pres.*, J. F. GREENE, Brown.  
*Sec.*, EMMA E. BROWN, Smith.  
*Treas.*, A. N. LEONARD, Brown.  
*Cor. Sec.*, I. L. FOSTER, Brown.  
W. H. EDDY, Brown.  
Mrs. L. P. BATES, Boston Univ.

#### *Committee on Membership and Hospitality.*

A. C. CROWELL, Brown.                      EMMA E. BROWN, Smith.  
J. L. ALGER, Brown.

### BRYN MAWR GRADUATE CLUB.

*Pres.*, JANE L. BROWNELL.                      *Sec.*, DOROTHY W. LYON.  
*V. Pres.*, THERÈSE F. COLIN.                      *Treas.*, WINIFRED WARREN.

#### *Executive Committee.*

THERÈSE F. COLIN, *Chairman*.                      FLORENCE V. KEYS.  
JANE L. BROWNELL.                      EMMA H. PARKER.  
SUSAN G. WALKER.

**THE GRADUATE CLUBS.****CORNELL GRADUATE STUDENTS' CLUB.**

*Pres.*, L. K. MALVERN.

*V. Pres.*, E. M. MILLS.

*Sec.*, F. C. FABEL.

**THE GRADUATE CLUB OF HARVARD UNIVERSITY.**

*Pres.*, W. HENRY SCHOFIELD, Victoria Univ., Toronto.

*V. Pres.*, H. E. BURTON, Harvard.

*Sec.*, C. A. DUNIWAY, Cornell.

*Treas.*, H. B. SHAW, Univ. of North Carolina.

*Executive Committee.*

H. E. BURTON, *Chairman*; F. C. BABBITT, J. H. BOYNTON, E. T. BREWSTER, C. A. DUNIWAY, F. L. DUNLAP, F. P. GULLIVER, H. R. MEYER, E. PIERCE, G. B. ROGERS, F. H. SAFFORD, W. H. SCHOFIELD, H. B. SHAW.

**THE GRADUATE CLUB OF JOHNS HOPKINS UNIVERSITY.**

*Hon. Pres.*, PROF. IRA REMSEN.

*Pres.*, A. W. STRATTON, Toronto.

*V. Pres.*, J. H. LABANE, Johns Hopkins.

*Sec.*, J. F. NORRIS, Johns Hopkins.

*Treas.*, W. H. MALTBIE, Ohio Wesleyan.

**THE GRADUATE CLUB OF THE UNIVERSITY OF MICHIGAN.**

*Executive Committee.*

*Pres.*, JOHN B. JOHNSTON.

*V. Pres.*, ELLEN C. HOGEBOOM.

*Sec. and Treas.*, MELVIN P. PORTER.

ANNAH M. SOULE.

DELOS F. WILCOX.

**THE GRADUATE CLUB OF THE UNIVERSITY OF PENNSYLVANIA.**

*Pres. ex-officio, Acting Provost*, CHARLES C. HARRISON.

*First V. Pres.*, JOSIAH H. PENNIMAN.

*Second V. Pres.*, LEO S. ROWE.

*Sec. and Treas.*, J. P. GARBER.

**THE GRADUATE CLUB OF RADCLIFFE COLLEGE.**

*Pres.*, LUCY A. PATON.

*Sec.*, MRS. FLORA W. PATTERSON.

*Treas.*, HENRIETTA GARDINER.

---

# ADDRESS

TO THE

## Governing Boards of American Universities,

BY GRADUATE STUDENTS.

---

At a meeting of affiliated clubs of graduate students, held in New York City, April 23, 1893, at which representatives of the Cornell, Harvard and Johns Hopkins organizations were present, it was resolved to issue an address to the governing boards of American Universities touching certain interests of graduate students.

We wish, then, at this time, to refer to two needs : first, uniformity in the requirements for the Doctor's degree ; and, second, the facilitation of university intermigrations.

The Doctor's degree ought to stand all the world over, as it does in Europe, for research ; and among our higher universities there is a practical uniformity in this requirement. Many universities, however, confer the degree after merely an examination on reading pursued *in absentia*, or on studies pursued in residence. Many institutions, moreover (31 in the Report of the Commissioner of Education for 1888-89,) give honorary Ph. D. degrees. Such practices make foreigners suspicious of the significance of our higher degrees.

We ask that the Doctor's degree be given only to persons competent to advance knowledge in some department, and trained as resident graduates in some university of high rank.

While seeing the advantages of pursuing the sequence of elementary studies planned in any one university, we must recognize the importance to higher education of such frequent migrations on the part of the student as occur in German universities. The scope of the courses at one university is limited by the knowledge and special interests of the instructors there. By receiving instruction from several teachers

at different places, the student gains that breadth of view which is his best preparation for research. On the other hand, the teachers gain new ideas and new inspirations from contact with students trained elsewhere. Intermigration is leaven, penetrating and raising the whole lump of higher study. In the absence of intermigrations each university is forced to try to cover the ground completely, and instead of an effective division of labor the announcements of many departments show a dreary uniformity, and an absence of special, advanced courses, for which the instructors have no time.

We do not forget the compensating advantages of long residence at one centre of study and research. It is a question how far a conservative regard for these should control university legislation. But, in view of the importance of student migration, to students and instructors alike, we believe it ought to be encouraged. While we are not ready to ask outright that the required time of residence at any particular university be reduced to one year, we should welcome the discussion of this and similar changes. Most of the more advanced universities do, indeed, confer degrees upon properly qualified students who have spent the last year in residence with them; but there are several important exceptions, such, *e. g.*, as Bryn Mawr, Harvard and Yale.

With the advance of graduate work, we look for a development of the spirit of co-operation between American universities. Meanwhile, to the accomplishment of the reforms suggested above we purpose to devote our best energies.

[Approved by the Committees on the Handbook appointed by the affiliated Graduate Clubs.]

## INTRODUCTION.

---

### BROWN UNIVERSITY.

By charter March 2, 1764, the General Assembly of the English Colony of Rhode Island and Providence Plantations incorporated a body of Trustees and Fellows for a college or university in that colony. It was enacted that the number of the Trustees be thirty-six, and that the Fellows, inclusive of the president, who must always be a Fellow, be twelve.

In the spring of 1764, Rev. James Manning opened a Latin School at Warren, Rhode Island, preparatory to the work of college instruction. In September, 1765, he was formally appointed by the corporation President of the College and Professor of Languages and other branches of learning. The first Commencement was held at Warren, September, 1769. This was the beginning of Rhode Island College.

In the spring of 1770 the College was moved to Providence. At its meeting on Sept. 6, 1804, in view of distinguished beneficence to it on the part of Mr. Nicholas Brown, the Corporation voted, "That in all future time the College be known by the name of Brown University. In its Academic Department, Brown University matriculates for the degrees of Bachelor of Arts, Bachelor of Philosophy, Bachelor of Science, Civil Engineer and Mechanical Engineer.

The University also offers excellent facilities for graduate study, to which its own graduates and those of other colleges are alike welcome. Not only are the libraries, the laboratories of the University, its Seminaries, its Observatory, and its various museums, all of a nature greatly to assist advanced study, but the industries of the city of Providence offer numerous and rare opportunities for special investigations.

An "Association of Graduate Students" holds monthly meetings during the year, at which papers are read and addresses made on topics connected with graduate work. The "Philosophical Club," the



## INTRODUCTION.

"Biological Club" and the "Seminaries" of several different departments likewise have frequent meetings.

So far as concerns its Graduate Department, the University places women students on exactly the same footing as men.

The year is divided into three terms, beginning the third Wednesday in September. Commencement is on the third Wednesday in June.

Faculty, 66 ; Resident Graduates, 30 ; Non-Resident Graduates, 67 ; Undergraduates, 490 ; Women's College, 73. President, E. BENJAMIN ANDREWS ; Registrar and Secretary of Faculty, FREDERICK T. GUILD.

## BRYN MAWR COLLEGE.

Founded in 1880 with the endowment of Dr. Joseph W. Taylor of New Jersey, who proposed to establish an institution of learning for the "advanced education" of women. A President and a Dean of the Faculty were elected in the spring of 1884, a careful study of the domestic organization of other women's colleges was made, and the system of major and minor electives in fixed combination was adopted from Johns Hopkins. The College opened in the fall of 1885 with fifty-four students. Three classes of students are admitted : graduate students, undergraduate students, and hearers. The hearers are not recognized by the College, attend courses on the consent of the instructor, and receive certificates of study from him only. Graduate students must have a diploma from a college of good standing, may pursue the graduate courses offered, and are entitled to personal guidance from their instructors. Two travelling fellowships are awarded annually, nine resident fellowships, and five graduate scholarships. The year is divided into semesters, beginning Oct. 2, 1894, and Feb. 11, 1895. Resident Graduates, 44 ; Undergraduates, 197 ; Professors and Associates, 22 ; Readers, Instructors, Demonstrators, 5. President, M. CAREY THOMAS ; Secretary, MADELINE VAUGHAN ABBOTT, Bryn Mawr, Pa.

## UNIVERSITY OF CALIFORNIA.

The University of California comprises the colleges of Letters, Agriculture, Mechanics, Mining, Civil Engineering, and Chemistry. It is controlled by a Board of 23 Regents.

Advanced instruction, leading to the degrees of Master of Arts (with the corresponding degrees in Letters and Science) and Doctor of Philosophy, is offered by the University of California to graduates of any reputable college or university.

The University library contains more than 55,000 volumes, and is admirably adapted, so far as its extent allows, for purposes of advanced study and research. The laboratories are extensive and well equipped, and every facility is afforded for work in the higher lines of Pure and Applied Science. No charge is made for instruction or the use of the library, and there are five graduate scholarships. The annual income of the University exceeds \$200,000. There are about 100 instructors and 700 students of both sexes. President, MARTIN KELLOGG, Berkeley, Cal.

### UNIVERSITY OF CHICAGO.

After the old University of Chicago, founded in 1857, had, in 1886, dissolved, Mr. John D. Rockefeller in connection with the American Baptist Education Society took steps, in 1888, towards founding a new University, inasmuch as he offered \$600,000 for such a purpose, provided \$400,000 more should be raised. This condition being soon fulfilled, and land worth \$125,000 having been given by Mr. Marshall Field, of Chicago, a charter was granted to six petitioners, and in 1890 a Board of Trustees with 21 members was chosen. This body consists of three classes, whose terms of office expire in successive years, their successors being elected by the Board itself. Two thirds of the Trustees and the President of the University shall forever be members of Baptist churches, but no religious test shall be applied to other persons connected with the University. The Trustees may make any by-laws for the control of the University, and the care of its funds; they appoint the President and instructors. The University Council, which consists of the chief administrative officials of the University, directs administrative matters; the University Senate, composed chiefly of the heads of departments of instruction, directs educational matters. The assets of the University, including funds subscribed and those now in hand, exceed \$7,000,000. The University proper includes the Graduate School and the Divinity School.

Admission to the former is granted to graduates of high-grade colleges and to special students under certain conditions. Applications (accompanied by testimonials) are to be addressed to the University Examiner. The year is divided into quarters, beginning on the 1st of July, October, January, and April. Resident Graduates, 305 ; Divinity Students, 180 ; Collegiate Students, 491. Faculty of Arts, Sciences, and Literature : Professors, 87 ; Instructors and Tutors, 31 ; Readers, 5 ; Assistants, 16 ; Docents, 10, and Lecturers, 7. Total of teachers, 154. President, W. R. HARPER ; University Examiner, F. F. ABBOTT, Chicago, Ill.

### CLARK UNIVERSITY.

Founded in 1887, through the munificence of a citizen of Worcester, with the aim of promoting independent investigation quite as much as instruction. The management of the University is in the hands of a self-perpetuating corporation of nine members, who appoint officers of the University, fix their compensation and their tenure of office. The University, which opened in October, 1889, with the five departments of Mathematics, Physics, Chemistry, Biology, and Psychology, is devoted to pure rather than to applied science. It admits only graduate students upon satisfactory testimonials. Students, 32 ; Fellows, 21 ; Professors, 5 ; Instructors and Lecturers, 3. President, G. STANLEY HALL, Worcester, Mass.

### COLUMBIA COLLEGE.

Founded in 1754, in New York City, by a charter from George II., King of England. Originally called "Kings College," its name became changed to "Columbia College" after the Declaration of Independence and the confirmation of its charter by the State of New York. Reorganized in 1890 after the pattern of the German Universities, with the five University Faculties (in addition to the School of Arts) of the School of Law, College of Physicians and Surgeons, School of Mines, School of Political Science, and School of Philosophy, to which has recently been added the School of Pure Science. Columbia College is an autonomous corporation, with large private funds, managed by a Board of Trustees consisting of

twenty-four members. This Board chooses the President and Professors for life on good behavior. The oversight of the plan of instruction and the lectures, the maintenance of discipline, the awarding of degrees and honors, devolves upon the President, the University Council (consisting of the Deans and one other representative from each Faculty, elected by all members of the Faculty), and the Faculties. The property of Columbia College has the estimated value of \$13,000,000; its expenditure in 1891-92 was \$629,000. The Faculty of Philosophy has charge of the University courses of instruction and research in philosophy, philology, and letters; with these may be combined certain courses in the Faculties of Law, Political Science, and Pure Science. Students are received either as candidates for degrees, or to pursue special or partial courses. Matriculates must have completed the curriculum of some good college to at least the close of the junior year. Candidates for the degree of Ph. D. from the Faculties of Political Science, Philosophy and Pure Science are required to read at sight Latin, French and German. The courses in the School of Political Science are open to any person who matriculates, but candidates for a degree must have the qualifications of matriculates of the Faculty of Philosophy. First term begins Oct. 1, 1894; second term begins Feb. 11, 1895. President, SETH LOW; Secretary of the University Council, Prof. J. K. REES, New York City.

### CORNELL UNIVERSITY.

An Act of Congress in 1862, entitled "the Morrill Land Grant Act," granted to each State 30,000 acres for each Senator and Representative in Congress, on condition that the funds derived from their sale should be devoted to colleges which should aim (without excluding scientific and classical studies) for the higher education of the industrial classes. Cornell University was incorporated by the New York Legislature in 1865, to obtain the 990,000 acres falling to that State, and with the additional endowment by Ezra Cornell of \$500,000 and 200 acres, with useful buildings. It was opened in 1868, its charter providing for the broadest instruction, unsectarianism, economy to students, and the free tuition of one student from each assembly district of the State. Since 1872,

women students have been admitted. The University is an autonomous corporation, administered by a Board of 23 Trustees, of which the oldest descendant of Ezra Cornell, the President of the University, and several State officers, *ex officio*, are members, while of the fifteen others, two are annually elected by the Trustees and one by the Alumni. The President and professors are chosen by the Trustees, Its chief funds have been derived from the sale of the land granted, and from several munificent gifts. Its funds now amount to \$9,000,000. In addition to advanced degrees, the University confers baccalaureate degrees in Arts, Philosophy, Letters, Science (including Bachelor of Science in Agriculture), Architecture, Civil Engineering, Mechanical and Electrical Engineering, and Law. The year is divided into three terms, beginning Sept. 27, 1894, Jan. 3, 1895, and April 2, 1895, respectively. Number of Fellows, 22; Graduates, candidates for advanced degrees, 230; Graduates, not candidates for such degrees, 10; Undergraduates, 1,364; School of Law, 197. Professors, 70; Instructors, 48; Assistants, 27; Lecturers (in Law), 7; Total of teachers, 152. President, J. G. SCHURMAN; Registrar and Secretary of the Faculty, Prof. G. P. BRISTOL, Ithaca, N. Y.

### HARVARD UNIVERSITY.

Harvard College, the oldest of the higher institutions of learning in America, was founded in 1636 by the General Court of Massachusetts Bay voting to give £400. Twelve of the most eminent men of the colony were charged with its organization, "for the training of learned and God-fearing clergy," at "Newetowne," later changed to Cambridge, in recognition of the English University, where many of the colonists had been educated. In 1638 a young clergyman of Charlestown, John Harvard, a graduate of Cambridge, England, and a former student of Emanuel College, at that University, bequeathed to the College £800 and his library, whereupon it took his name. In 1640, by a legislative enactment, certain officials and clergy of the colony, together with the President of the College, were intrusted, as overseers, with its entire administration. Since, however, the body proved itself too large, the General Court, in 1650, made the College a corporation, consisting of the President, five Fellows, and a Treasurer, with the right of filling its

own vacancies. The acts of the corporation became valid only upon the consent of the overseers, but in 1657 (an appendix to the College charter), the orders and by-laws made by the corporation were declared to have immediate force and effect, and to be merely "alterable" by the overseers, to whom the corporation was to be responsible. This charter is still in force. In its beginning, the College depended upon the not very liberal financial support of the State. It has received a greater income through the endowments of its grateful alumni, and of others who have recognized the value of the institution to the country. The first professorship founded in America was that endowed by Thomas Hollis, a London merchant, in 1721, for Divinity. At the end of the 17th and beginning of the 18th centuries, Harvard College was the centre of the religious conflict in North America. In 1783, the Medical Faculty was established, and in 1817 the Law Department. Under the present administration the institution has made greater progress than ever before, and has developed into a university which now consists of the old College, the Scientific School, the Graduate School, and the six professional schools of Divinity, Law, Medicine, Veterinary Medicine, Dentistry, and Horticulture. The four latter are located in Boston. Harvard University is an autonomous corporation, consisting of the President, five Fellows, and the Treasurer, with a board of overseers (32 members, including the President and Treasurer, *ex officio*). Five overseers retire annually from office, and are replaced through election by the Alumni. The professors are appointed by the corporation, without express limitation of time. The amount expended by the university in 1892-93 was \$1,065,055.37. Harvard College, the Lawrence Scientific School, and the Graduate School are under the charge of one Faculty (Faculty of Arts and Sciences). The other schools have their separate Faculties. At the head of each Faculty stands the Dean. Applications for admission to the Graduate School are received at any time; preferably at the beginning of the academic year. Graduates of high-grade colleges and scientific schools, and other persons by special vote, are admitted on satisfactory evidence of qualifications. Holders of travelling fellowships, and some others who have already completed a period of residence, are registered as non-resident students. The year is divided into two terms, beginning Sept. 27, 1894, and Feb. 11, 1895, respectively.

Number of Resident Graduates, 248 ; Non-Resident, 11 ; Undergraduates, 1,936 ; other departments, 1,220. Professors, 118 ; Instructors, 110 ; Demonstrators and Assistants, 79 ; Lecturers, 15 ; total of teachers, 322. President, C. W. ELIOT ; Assistant Secretary, RICHARD COBB, Cambridge, Mass.

### JOHNS HOPKINS UNIVERSITY.

Founded through the munificence of a citizen of Baltimore, Johns Hopkins, who gave over \$3,000,000 to establish the University, and an equal amount for a hospital. The University became established under the laws of Maryland by the charter of 1867 ; in 1870 the Trustees met and elected their President and Secretary. The President of the University was chosen in 1874. Lectures were first delivered in 1876. The Trustees are the ultimate source of authority in all matters pertaining to the University. The President of the University is *ex officio* a member of the Board, and mediates between it and the Faculty. The Academic Council of the Faculty guides the various departments of study, and selects the Fellows. President, Faculty, and Academic Council are appointed by the Board of Trustees.

"The Board of University Studies" arranges the courses for graduates, and the examinations of the candidates for the doctorate. The expenditure of the University in 1890-91 was \$170,000. The University provides "collegiate" and "university" instruction. University instruction is offered to advanced and graduate students, whether candidates for a degree or not. They are admitted to courses after consulting with the instructor. The proximity to Washington affords access to unusually large libraries and museums. Number of Graduate Students (taking courses leading to the degree of Ph. D.), 261 ; Undergraduates and specials, over 200. Professors and Associates, 56 ; Instructors, 13 ; Lecturers, 14. President, D. C. GILMAN ; Secretary of Board of University Studies, G. H. EMMOTT ; Registrar, T. R. BALL, Baltimore, Md.

### LELAND STANFORD, JR., UNIVERSITY.

Founded in 1885 by the Hon. Leland Stanford and Jane L. Stanford. Was first opened to students in October, 1891. The general management and control of the University is vested in a self-perpetuating board of twenty-four Trustees chosen for life, of whom fifteen constitute a quorum. The charter provides that the founders during their lives "shall perform all the duties and exercise all the powers and privileges enjoined upon and vested in the Trustees." To the President is intrusted the selection of the Faculty and the determination of the educational policy of the University. Each professor, however, is regarded as supreme in his own department, and in the details of his work is responsible only to the President. The general scope of the institution is defined in the Charter to be "that of a university with such seminaries of learning as shall make it of the highest grade, including mechanical institutes, museums, galleries of art, laboratories and conservatories, together with all things necessary for the study of agriculture in all its branches and for mechanical training, and for the studies and exercises directed to the cultivation and enlargement of the mind." The year is divided into semesters, beginning Sept. 6, 1894, and Jan. 7, 1895. Number of Graduate Students, 84; Undergraduates and specials, 891; Professors, 55; Instructors, 10; Assistants, 10. President, DAVID S. JORDAN; Secretary and Registrar, O. L. ELLIOTT, Stanford University, California.

### UNIVERSITY OF MICHIGAN.

Founded in 1837, by an Act of Legislature, as a part of the public instruction. Its government was at first vested in a Board of Regents, appointed by the Governor of the State, with the consent of the Senate, several State officers being *ex officio* members. The Regents enacted laws, appointed and removed professors, fixed salaries, and regulated courses of instruction. The Governor was made *ex officio* president of the Board. It was enacted that the University should consist of the three departments, of literature, science, and the arts; of law; and of medicine. The first of these departments opened in 1841; that of



medicine in 1850; that of law in 1859. In 1852, by amendment of the State Constitution, the regents became elected by the people, and they elected a President to be the principal executive officer of the University, the Board retaining a general supervision and a control of all expenditures. At present there are eight Regents, two of whom are elected biannually, holding office for eight years. In addition to the three departments mentioned above, the University consists of the School of Pharmacy and of the Homœopathic and the Dental Colleges. The professors of all the Faculties constitute the University Senate, which considers all questions of general interest. The income of the University is derived chiefly from a fund created by sale of lands granted by the United States, from a State tax, and from students' fees. The expenditures in 1892-93 were \$375,986.08.

The Graduate School was established in 1892 and in connection with the Faculty of Literature, Science, and the Arts. It is under the special government of the "Academic Council," consisting at present of all the heads of the departments. It is open to graduates of high-class colleges who wish to become candidates for a higher degree, and also for those who do not. Applications (with credentials) are to be made to the President. Students pursue three lines of study—one major and two minor. The year is divided into semesters, of which the first begins Oct. 1, 1894; the second, Feb. 18, 1894.

In 1893-94, Resident Graduates in Academical Faculty, 85; Non-resident, 32; Undergraduates, 1310; other departments, 1251. Professors and Assistant Professors, 74; Lecturers and Instructors, 39; Demonstrators and Assistants, 42. President, J. B. ANGELL; Registrar, Prof. P. R. de PONT.

## UNIVERSITY OF MINNESOTA.

The University of Minnesota was originally organized by an Act of the Territorial Legislature of 1851, and was adopted by the people of the State in 1857, as the "State University." It was reorganized in 1864, 1868, and 1872. Its actual beginning was in 1868; in September of that year instruction in the college classes was offered for the first time.

The University is organized into colleges and departments as follows:

A graduate department; colleges of (1) Science, Literature and the Arts; (2) Engineering, Metallurgy and the Mechanic Arts; (3) Agriculture; (4) Law, and a Department of Medicine which is organized into colleges of (1) Medicine and Surgery; (2) Homœopathic Medicine and Surgery; (3) Dentistry; (4) Pharmacy. The graduate work of this institution consists largely in independent individual investigation under the direction of the professors in charge of the departments. Consultation may be once a week or oftener, as the case may demand. Men and women are admitted to all colleges and departments on the same terms. Annual income, ca. \$210,000. Professors and Instructors, 139; whole number of Students in 1893-94, 1828; Graduate Students, 91. President, CYRUS NORTHROP, LL. D.

## UNIVERSITY OF PENNSYLVANIA.

A pamphlet, called: *Proposals Relative to the Education of Youth in Pennsylvania*, written in 1749 by Dr. FRANKLIN, led to an association by certain citizens of Philadelphia, for the purpose of raising to the dignity of an Academy the Charitable School which had been established in 1740, and which was then struggling under a debt upon the building erected for its use and the accommodation of the celebrated preacher Whitefield. So successful was the undertaking that in two years the trustees applied to the proprietors for a charter, which was given. Under this charter the right to confer Academic degrees was granted, and the institution was named "*The College and Academy of Philadelphia*." In 1779 an alleged attempt to restrict the freedom of opinion required in the charter gave the State Legislature a pretext on which they confiscated the properties of the *College*, and bestowed them upon a new organization, called in its charter the "Trustees of the University of the State of Pennsylvania." Ten years later, these rights and properties were all restored, and in 1791 an act was passed amalgamating the old *College* in the new *University*, with the agreement that "the name of the institution be '*The University of Pennsylvania*,' and that it be stationed in the city of Philadelphia."

The University of Pennsylvania now comprises the following departments: THE COLLEGE, in which are given the arts and science courses, and courses in science and technology, finance and economy, American

history, biology, music, architecture, chemistry, chemical engineering, mechanical and electrical engineering, and civil engineering, the Dept. of Medicine, the Univ. Hospital, the Dept. of Law, the Auxiliary Dept. of Medicine, the Dept. of Dentistry, the Dept. of Philosophy, the Dept. of Veterinary Medicine, the Dept. of Physical Education, the Museum of Archæology and Paleontology, the Laboratory of Hygiene, the Grad. Dept. for Women, the Wistar Institute of Anatomy and Biology.

The University of Pennsylvania is governed by a Board of twenty-four trustees and the Provost. The Governor of the State is *ex officio* President of the Board. There are in attendance on the various courses of the University 2,180 students, distributed as follows: the College, 683; Dept. of Philosophy, 154; Dept. of Law, 228; Post-graduate Course in Law, 8; Dept. of Medicine, 796; Auxiliary Dept. of Medicine 39; Dept. of Dentistry, 231; Dept. of Veterinary Medicine, 78; Dept. of Hygiene, 6. The various courses in all departments are given by a teaching force of 268.

The Dept. of Philosophy is in all its courses entirely distinct from the undergraduate work, but in such subjects as are not usually represented at all in undergraduate work, both advanced and elementary courses are offered. Undergraduate courses are open to any graduate students that may wish to take them.

Acting Provost of the University, CHARLES C. HARRISON; Dean of the Dept. of Phil., Prof. WILLIAM A. LAMBERTON, University of Pennsylvania, Phila., Pa.

## PRINCETON.

(College of New Jersey.)

Founded in 1746, through the influence of Dr. Dickinson and others, by a charter from the Governor, John Hamilton. In 1748 a second and more ample charter was granted by Governor Belcher, and this, after the Revolution, was confirmed and renewed by the State Legislature. The corporation is a Board of Trustees, who hold and administer the property of the College, make laws for its government, choose its President and Faculty, and confer degrees. This Board is self-perpetuating, composed of twenty-seven members, with the Gov-

ernor of the State as President *ex officio*. The John C. Green School of Science was established in 1873, and offers courses in Natural Sciences and Technology, some of which are intended for graduates. In connection with the John C. Green School of Science is the School of Electrical Engineering, which is designed to furnish instruction in the theory of electricity, as well as in the application of electricity in the arts. Every instructor in the College may, with the leave of the Faculty, give instruction to graduates. "He shall meet with his class for at least one hour a week, and not more than three hours a week during the Academic year." The year is divided into two terms of eighteen weeks each, beginning Sept. 19, 1894, and Feb. 7, 1895, respectively. Number of Resident Graduate Students (including Fellows), 123; Non-Residents, 8; Undergraduates, 961. Professors, 43; Instructors and Assistants, 33. President, F. L. PATTON; Registrar, H. N. VAN DYKE, Princeton, N. J.

### RADCLIFFE COLLEGE.

Radcliffe College, the successor of the Society for the Collegiate Instruction of Women, offers systematic collegiate instruction to women under the professors and other teachers of Harvard University. More than seventy instructors of the University are teachers in Radcliffe College.

Fay House contains the recitation rooms and offices, and a select working library. The College has four laboratories, of Physics, Chemistry, Botany, and Biology. The collections of the Agassiz Museum of Comparative Zoölogy, the Peabody Museum of American Archæology, the University Museums of Geology, Botany, and Mineralogy, and the Semitic Museum, are also open to the students; and, by vote of the President and Fellows of Harvard College, the students have the use of the University Library, containing 400,000 volumes. Opportunities for study in the Astronomical Observatory, the Botanic Garden, and the Herbarium are also afforded.

The requirements for admission are identical with those for admission to Harvard College. The courses of instruction given in Radcliffe College correspond to both "undergraduate" and "graduate" courses offered by Harvard University, and are more than sufficient to enable

a woman to perform the work required by the University for the degrees of A. B. and A. M. In addition to these, graduate students in Radcliffe College have access to a large number of graduate courses in Harvard University. The examinations are the same in both institutions, and the diplomas conferring the degrees of A. B. and A. M. are countersigned by the President of Harvard University as a guarantee that these degrees are equivalent to the corresponding degrees given by the University.

### VANDERBILT UNIVERSITY.

Vanderbilt University owes its foundation to the munificence of Cornelius Vanderbilt, of New York, who on the 27th of March, 1873, made a donation of \$500,000. This was subsequently increased until the entire donation amounted to \$1,000,000. Mr. Wm. H. Vanderbilt, the son of the founder, made donations at various time aggregating \$450,000. Mr. Cornelius Vanderbilt, the grandson of the founder, made a donation of \$30,000 in January, 1888. The university is organized in seven distinct departments, as follows: Academic, Biblical, Law, Medical, Pharmaceutical, Dental, Engineering. Each department has its faculty of instruction charged with its special management. The Board of Trust is self-perpetuating and consists of thirty-one members. The bishops of the M. E. Church, South, and the chancellor of the University are *ex officio* members of the Board. The other members are elected for a term of eight years. The attendance for the year 1893-4 was as follows: Academic, graduate, 29; Academic, undergraduate, 174; Biblical, 62; Engineering, 54; Law, 30; Medical, 243; Dental, 128; Pharmaceutical, 23. Teachers of all grades, 66. Chancellor, James H. Kirkland; Secretary of the Faculty, Wils Williams, Nashville, Tenn.

### WESTERN RESERVE UNIVERSITY.

Founded 1826 at Hudson, Ohio, as Western Reserve College. In 1882 this College was removed to Cleveland, Ohio, and named Adelbert College of Western Reserve University in honor of the son of its benefactor, Mr. Amasa Stone, who gave it \$600,000. Other departments were gradually added, so that the University now consists of Adelbert

College, the College for Women (opened 1888), the Graduate School (established 1892), the Medical College (founded 1843, became part of the University 1883), the Franklin T. Backus Law School (opened 1892), the Dental School (established 1892). The corporation is a self-perpetuating board of twenty-nine trustees, who hold the property of the University and administer its affairs. In 1893-94 this property was valued at \$1,100,000. The total number of professors and instructors was 69; of students, 395.

The Graduate School was established in 1892 and is open to graduates of high-grade colleges without distinction of sex, and with or without reference to the attainment of higher degrees. Applications (with credentials) should be made to the Dean of the Graduate Faculty. Candidates for higher degrees pursue three lines of study, one major and two minors. The year is divided into two terms, of which the first begins Sept. 20, 1894, the second Feb. 11, 1895. The Faculty of the non-professional Graduate School numbers 26. President, CHAS. F. THWING; Dean of Graduate School, R. W. DEERING.

### WISCONSIN.

Founded in 1849, and controlled by a Board of Regents appointed by the Governor of the State.

The University consists of the College of Letters and Science, the College of Mechanics and Engineering, the College of Law, the College of Agriculture, the School of Pharmacy. Attendance: Resident Graduates, 53; Non-Resident Graduates, 39; Undergraduates in the College of Letters and Science, 702; other departments, 585. Professors, 47; Assistant Professors, 13; Instructors, 25. The year is divided into three terms, the next year beginning Sept. 12, 1894. President, CHARLES KENDALL ADAMS; Registrar, W. G. HIESTAND.

### YALE UNIVERSITY.

Founded in 1701, through the influence of ten clergymen, by a charter from the General Court of Connecticut, which created a Board of Trustees, all of whom were to be clergymen. The court endowed this College of Connecticut with an annual grant, and the State continued

up to the present century to appropriate funds for its support. Located temporarily at Saybrook, it was permanently established at New Haven in 1716, and named after Elihu Yale, who had donated £400. The University is an autonomous corporation, under the control of a Board of Trustees, composed of ten Congregational clergymen of the State of Connecticut, the Governor and Lieutenant-Governor of the State, *ex officio*, six alumni (chosen by vote of all the alumni) and the President, who is *ex officio* President of each Faculty. The University comprises (1) the Department of Philosophy and the Arts, including the courses for Graduate Instruction, Yale College, Sheffield Scientific School (begun in 1847) and the Art School; (2) Divinity School; (3) Medical School; (4) Law School. The University funds, exclusive of grounds, buildings, and collections, amounted, in 1893, to \$1,181,650.53; the Academic fund to \$1,468,890.40; those of the Theological Department to \$578,465.35; of the Sheffield Scientific School, \$255,778.09; of the Medical Department to \$35,131.93; of the Law Department to \$76,686; of the Art School to \$92,305.57; and the Loomis fund, \$312,415.51. Expenditure for 1892-3, \$650,560.10. Graduates of colleges, of both sexes, are received with or without reference to the attainment of a higher degree. The year is divided into two terms, beginning Sept. 27, 1894, and Jan. 8, 1895, respectively. Number of students in Graduate courses, 143; Undergraduates, 1,687; other departments, 426. Professors, 93; Instructors, 48; Assistants and Demonstrators, 40; Lecturers, 19. President, Rev. TIMOTHY DWIGHT; Dean of the Graduate Department, Prof. ARTHUR T. HADLEY, New Haven, Conn.

### COURSES FOR WOMEN.

In addition to those colleges represented in this book which are exclusively for women, viz., Bryn Mawr and Radcliffe, graduate courses are open to women in Brown, University of Pennsylvania, Western Reserve, and Yale; and all courses, graduate and undergraduate, in Chicago, Cornell, Michigan and Minnesota. The University of Pennsylvania offers four fellowships to women, entitling the holders to free tuition and residence in the dormitory for women. Students at Barnard College are admitted to courses at Columbia.

INSTITUTION.	FEES.	FELLOWSHIPS AND SCHOLARSHIPS.		SIZE OF LIBRARY.	
		NUMBER.	ANN. VALUE.	BOOKS.	PAMPH.
Brown . . . . .	\$150 + { \$25 Ph. D. \$15 A. M.	1	\$500	80,000	20,000
Bryn Mawr . . . .	\$100 + Lab. fees.	2 Travelling Fell. 9 Res. Fell. 5 Schol.	\$500 \$525 \$200	22,300	—
California . . . . .	No fees.	5	—	55,000	—
Chicago . . . . .	\$35 per quarter, \$5 incidentals.	55 Fell. 30 Schol. and Fell.	\$300 \$120	240,000 (est.)	—
Clark . . . . .	—	10 Fell. 10 Fell. 10 Schol. 10 Schol.	\$600 \$400 \$200 \$100	16,000	2,000
Columbia . . . . .	\$150, or \$15 per ann. for each hour per week. \$35, Grad. fee.	24 Fell. 1 Fell. in <i>Physics</i> . Several free or re- duced tuitions.	{ \$500 and no tuition fees.	160,000	—
Cornell . . . . .	\$100-\$125 \$10, Grad. fee.	22 Fell. 16 Schol.	\$500-\$600 \$300	150,000	25,000
Harvard . . . . .	\$150 + Lab. fees, or \$45 per course.	17 gen. } Fell. 5 spec. } 28 Schol. } 20 Schol.	\$750-\$500 \$300-\$200 \$150	422,000	400,000 (est.)
Johns Hopkins . . .	\$150; \$5, Registration fee; \$10, Grad. fee.	20 Fell. 20 Schol. 30 Schol. for res. of Va. and N.C. only.	\$500 \$200 \$225-\$150	60,000	40,000
Leland Stanford, Jr.	Lab. fees.	0	—	19,000	5,000



INSTITUTION.	FRES.	FELLOWSHIPS AND SCHOLARSHIPS.		SIZE OF LIBRARY.	
		NUMBER.	ANN. VALUE.	BOOKS.	PAMPH.
Michigan . . . .	\$25, Matric. fee, non-res. of State. \$10, Matric. fee, res. of State. \$35, Ann. fee, non-res. of State. \$25, Ann. fee, res. of State.	1 Fell. in <i>Classics</i> .	\$500	86,000	16,000
Minnesota . . . .	\$10 + Lab. fees.	1	\$250	35,000	—
Pennsylvania . . . .	\$150.	1 Fell. in <i>Physics</i> . 5 Fell. in <i>Economics</i> . (3) English. 4 (Women.)	\$600 Free tuition. Tuition and residence.	150,000	100,000
Princeton . . . .	\$40, Matric. fee. \$25, Ann. fee. \$50, Grad. fee.	11 spec. Fell.	\$600-\$200	171,000	25,000
Radcliffe . . . .	\$200 + Lab. fees.	2 Schol.	\$200	Use of Harvard Library.	
Vanderbilt . . . .	\$100 + Lab. fees.	10 Fell.	\$200	—	—
Western Reserve . . . .	\$75 + Lab. fees.	Several free or re- duced tuitions.	—	26,000	12,000
Wisconsin . . . .	—	—	—	—	—
Yale . . . . .	\$100.	5 Fell. 20 Schol.	\$400 \$100	200,000	100,000

## EXPLANATION OF LISTS OF GRADUATE COURSES.

---

In the notes, following *Lib. contains*, or otherwise, are frequently given special collections of books. These were gathered from the Bibliographical Contributions of the Harvard University Library, No. 45, 1892. In some cases, by special request, such notes have been omitted.

*Special* funds open to students of the department are also given.

From some of the Universities, information on the above two points was not obtained.

Following the instructor's name are usually (1) his highest degree and present position; (2) previous positions held and journals edited; and (3) subjects upon which he has published. These items are separated by dashes. One or more may be omitted.

Following the brief title of the course are given the number of hours per week and number of weeks of appointment with instructor. Unless the months are given, the course usually extends from October to May (inclusive).

- L    Number of hours laboratory work.
- \*    Course open also to undergraduates.
- lab.   Laboratory work (indefinite).
- fort.   Fortnightly.

Bracketed courses (Harv.) are not given this year. In almost every case they will be given next year.

The names of the months have been abbreviated as follows: Ja., F., Mr., A., My., Ju., Jul., Au., S., O., N., D.

The Cornell courses of the first ten sections will be found on page 113. The editors regret exceedingly that, through no fault of the University authorities, this material arrived too late for insertion otherwise.

\*\*\* COURSES IN RADCLIFFE COLLEGE ARE IDENTICAL WITH HARVARD COURSES.

# I. LANGUAGE AND LITERATURE.

## 1. SEMITIC LANGUAGES AND LITERATURES.

[Including Semitic History and Biblical Literature.]

### BROWN.

J. R. JEWETT,

Ph. D., Strasburg, 1890; Assoc. Prof. Sem. Lang. and Lit.; A. B., Harvard, '84; Syria, Egypt '84-'87; Berlin, Strasburg, '88-'90; Instr. Semitic Lang., Harvard, '87-'88—Arabic proverbs.

- \*Hebrew. 3, 34.
- \*Hebr. Syntax. 3, 12. S.-D.
- \*Isaiah. 3, 34.
- \*Aramaic. 3, 22. Ja.-Ju.
- \*Arabic. 3, 34.
- \*Assyrian. 3, 34.
- \*Oriental History. 3, 34.

### BRYN MAWR.

*Semitic Library of A. Amand, of Paris.*

GEORGE A. BARTON,

Ph. D., Harvard, 1891; Assoc. in Bibl. Lit. and Semit. Lang.—Harvard, '89-'91.

Hebrew. 2, 30.

Aramaic, incl. Syriac and Bibl. Aramaic. 2, 30.

[Assyrian. 2, 30.]

[Patristic Greek, esp. sub-apostolic lit. 2, 30.]

\*Hist. of Israel. 2, 30.

\*Hist. and progress of relig. ideas in Israel, and N. T. relig. ideas. 2, 30.

Cuneiform inscript. and O. T. 1, 30.

\*Assyrian. Spanish and Bagdad Caliphates. 1, 30.

Seminary, fort.

[Advanced Bibl. Lit. 2, 30.]

### CALIFORNIA.

J. VOORSANGER,

D.D.; Prof. Semit. Lang. and Lit.

Elements of Hebrew. 4.

More advanced courses will be added in succeeding years.

### CHICAGO.

W. R. HARPER,

Ph.D., Yale, 1875; President of Univ.; Head Prof. Semitic Langs. and Lits.—Prof. Hebrew and Cognate Langs., Baptist Union Theol. Sem., '79-'86; Principal Chautauqua System since '91; Prof. Semitic, Yale, '86-'91; Woolsey Prof. Biblical Lit., Yale, '89-'91; Ed.: *Old and New Test. Student and Hebraica*.

Early O. T. Traditions. 4, 12, Ja.—Mr.

O. T. Wisdom Literature. 4, 12, O.—D.

Semitic Seminar. 4, 12, O.—D.

Hebrew Lang. 10, 6, Au.—S. (with C. E. Crandall).

Arabic geog., hist., and commentary. 4, 12, Ja.—Mr.

Phoenician. 5, 6, Ja.—F.

Samaritan. 4, 6, Ja.—F.

Adv. Hebr. gram. 5, 6, Au.—S.

Comp. Semitic gram. (adv.). 5, 6, F.—Mr.

Beginning Hebrew (with C. E. Crandall). 10, 6, A.—My.

Books of Samuel (with C. E. Crandall). 10, 6, My.—Ju.

O. T. Institutions and Laws. 4, 12, A.—Ju.

The Book of Job. 4, 6, Au.—S.

Arabic lang. 4, 6, Au.—S.

Earlier Suras of Kuran. 4, 12, O.—D.

E. G. HIRSCH,

Ph.D., Leipzig, '76; Prof. Rabbinical Lit. and Philos.—U. of Penn.; Leipzig, '76; Minister, '77-'81; Ed.: *Zeitgeist*, '80-'87, and *Reformer*, '86.

Gen. Introduction to Rab. Literature. 4, 6, O.—N.

Talmud. 4, 6, Ja.—F.

Talmud (adv.). 4, 12, Ja.—Mr.

Jerusalem Talmud. 4, 12, A.—Ju.

- Syriac Authors. 4, 12, A.-Ju.  
 One thousand and one nights. 4, 12, A.-Ju.  
 Advanced Ethiopic. 4, 6.  
 Targ'um. 4, 6, A.-My.  
 Mishna. 4, 6, N.-D.  
 Coptic. 4, 6.
- SYLVESTER BURNHAM.  
 Advanced Hebrew Grammar. 4, 6, Jul.-Au.  
 The Psalter. 4, 6, Jul.-Au.
- E. D. BURTON,  
 A.B.; Prof. New Testament Lit. and Exegesis.—Rochester Theol. Sem., 1879-82; Leipzig, '87; Instr. N. T. Greek, Rochester Theol. Sem., '82-3; Assoc. Prof., Newton Theol. Inst., '83-6; Prof. N. T. Interpret., *ibid.*, '86-92; Asst. Ed. *Biblical World*.—Moods and tenses in N. T. Greek; study of N. T. works; life of Jesus.  
 Life of Paul and Introduction to the Epistles. 4, 12, O.-D.  
 New Test. Greek. 4, 12, Ja.-Mr.  
 Romans. 4, 12, Ja.-Mr.  
 Intro. to Synoptic Gospel. 4, 12, Ja.-Mr.
- I. M. PRICE,  
 Ph.D., Leipzig, 1887; Assoc. Prof. Semit. Langs. and Lits.—Bapt. Union Theol. Sem., B.D., '82; Leipzig; Prof. in Hebrew and Cognate Langs., Baptist Union Theol. Sem., '88-92; Assoc. Ed.: *Biblical World* and *Hebraica*.—O. T. hist. inscriptions.  
 Special Intro. to Prophetic Books. 4, 12, O.-D.  
 Bi-lingual Babyl. psalm lit. 2, 12, O.-D. (sem.)  
 Hebrew Lexicography (sem.). 2, 12, Ja.-Mr.  
 Special Intro. to Hebrew Poetry and Poetical Books. 4, 6, Ja.-F.  
 Messianic Prophecy. 4, 12, Ja.-Mr.  
 Biblical Aramaic. 5, 6, F.-Mr.  
 The Psalter. 4, 12, A.-Ju.  
 Heb. lang. 10, 6, Ju.-Jul.  
 History, Principles and Methods of O. T. Interpretation (sem.). 2, 12, A.-Ju.  
 Deuteronomy. 4, 6, Ju.-Jul.
- G. S. GOODSPEED [see also 10],  
 Ph.D., Yale, 1891; Assoc. Prof. Comp. Relig. and Anc. Hist.—Yale; Freiburg, '91-2; Asst. in Semitic, Yale, '88-91.
- Beginnings of Hebrew History. 4, 12, O.-D.  
 Hist. of Persian Empire. 4, 12, O.-D.  
 Earliest Historical Religions. 4, 12, O.-D.  
 Hist. of Hebrew Monarchy. 4, 12, A.-Ju.  
 Hist. of Ancient Egypt. 4, 6, A.-My.  
 Hist. Babylon and Assy. 4, 6, My.-Ju.  
 Hist. of Hebrew Religion. 4, 12, A.-Ju.  
 Exilic and Post-Exilic. Hist. 4, 12, Jul.-S.
- R. F. HARPER,  
 Ph.D., Leipzig, 1886; Assoc. Prof. Semitic Langs. and Lits.—Instr. in Semitic, Yale, '87-8, '89-91; Assyriologist, Expedit. Babylon. Explor. Fund (U. of Penn.), '88-9.  
 Assyrian lang. 5, 12, Jul.-S.  
 Assyrian lang. 5, 12, O.-D.  
 Later Hist. Inscriptions. 4, 12, O.-D.  
 Palestinian Life. 4, 6, A.-My.  
 Palestinian Geog. 4, 6, A.-My.  
 Assyrian Letters. 4, 12, A.-Ju.  
 Micah. 4, 6, Jul.-Au.  
 Early Assy. hist. inscrip. 5, 12, Jul.-S.  
 Beginning Syriac. 5, 12, O.-D.
- C. E. CRANDALL,  
 Ph.D., Yale, 1891; Univ. Exten. Instr. Semitic Langs.—Bapt. Union Theol. Sem., B.D., '85; Assist. Semitic, Yale, '89-91.  
 Deuteronomy, Sight Reading. 2, 6, Ja.-F.  
 Jeremiah, Sight Reading. 2, 6, F.-Mr.  
 Hist. Hebrew. 5, 6, Au.-S.
- W. MUSS-ARNOLT,  
 Ph.D.; Instructor in Biblical and Patristic Greek, and Assistant Recorder.—University of Tübingen, 1878-80; D.B. Theological Seminary of the Reformed Dutch Church, New Brunswick, N. J., 1882; Instructor in Hebrew, *ibidem*, 1882-3; Fellow and Fellow by Courtesy, Johns Hopkins University, 1883-88; Ph.D., *ibidem*, 1888; Professor of Ancient Languages, New

## Chicago—Continued.

Windsor College, Md., 1888-90; Instructor in New Testament Greek, Johns Hopkins University, 1891-3; Acting Assistant Professor of Semitic Languages and Hellenistic Greek, University of Michigan, 1893.—Semitic and Indo-European Etymology; Assyrian Lexicography.

Josephus. O.-D.

Septuagint. 4, 12, Ja.—Mr.

Textual Criticism of N. T. 4, 12, Ja.—Mr.

Christian Lit. to Eusebius. 4, 12, A.—Ju.

Intro. to general Epistles and Revelation. 4, 12, A.—Ju.

N. T. Syntax. 4, 6, Au.—S.

Paul's Epistles to Thessal. 4, 6, Au.—S.

N. T. Quotations from O.-T. Part II. The Epistles. 4, 6, Jul.—Au.

## C. F. KENT.

Apocryphal wisdom lit. 4, 12, Ja.—Mr.

Outline of Hebrew Hist. 4, 12, O.—D.

Books of Kings. 4, 6, O.—N.

Isaiah, I.—XXXIX. 4, 6, N.—D.

## C. W. VOTAW,

B.D., Yale, 1891; A.M., Amherst, '92.—Docent in Biblical Lit., Yale, '88-91; Chicago, '92-3; Instr. N. T. Greek, Am. Inst. Sac. Lit., '91-2.—Founding of Christian Church.

Rapid Interpretation of N. T. 4, 12, A.—Ju.

## SHAILER MATHEWS,

A.M.; Associate Professor of New Testament History and Interpretation; A.B., Colby University, 1884; A.M., *ibid.*, 1887.—Newton Theological Institution, 1884-7; Associate Professor of Rhetoric, Colby University, 1887-9; Lecturer in New Testament Department, Newton Theological Institution, 1889-90; University of Berlin, 1890-1; Professor of History and Political Economy, Colby University, 1889-94.

Hist. of N. T. times. 4, 12, O.—D.

Luke. 4, 12, O.—D.

Life of Christ. 4, 12, O.—D.

The Epistle to Galatians. 4, 6, Au.—S.

## COLUMBIA.

*Various courses at the Union Theological Seminary are open to students, namely, in N. T. Greek, 8 courses, 1-2 h., by Prof. Vincent; in Semitic, 17 courses, 1-2 h., by Profs. F. Brown, Briggs, and Mr. Fagnant; in Church Hist., 5 courses, 2 h., by Mr. W. A. Brown.*

RICHARD J. H. GOTTHEIL,

Ph.D.; Prof. Rabbin. Lit. and Semit. Lang.

\*Bibl. Heb. (el.) 2, 30.

\* " " (adv.) 2, 30.

Bibl. Heb. (3d course.) 2, 30.

\*Rabbin. Heb., Med. Heb. poetry. 1, 30.

\*Rabbin. Heb., Psalms. 1, 30.

Semitic epigraphy (adv.). 1, 30.

Assyrian (adv.). 2, 30.

Arabic (2d course). 2, 30.

" (3d course). 2, O.—Ja.

\*Syriac. 2, O.—Ja.

Seminary: Egyptian dialect of mod. Arabic. 1, 30.

## HARVARD.

*Semitic conference meets twice monthly. Special Semitic Library, gift of J. H. Schiff. Semitic museum contains large collection of monuments, tablets, seals, coins, and photographs, providing means of original research.*

CRAWFORD H. TOY,

A.M., Virginia, 1856; Hancock Professor of Hebrew and other Oriental Languages.—Berlin, '66-68.—Prof. So. Baptist Theolog. Sem., '69-79; Prof. Harvard, '80-pr.—Semitic Grammar, Religion of O. T., Quotations from O. T. in N. T.

(Absent on leave, 1894-95.)

[Hist. of the Bagdad Califate.—Egypt under the Moslems.—The Crusades from Mohammedan sources. 1, 31.]

[Ethiopic. 1, 31.]

[Hist. of the Spanish Califate.—The Korān.]

[Kitāb al-Aḡāni.]

[General Semitic Grammar.]

DAVID G. LYON,

Ph.D., Leipzig, 1882; Hollis Professor of Divinity.—Leipzig, '79-82.—Prof. Harvard, '82-pr.—Record. Sec., Am. Oriental Soc., '86-pr.—Assyrian Lang. and Relig., Hebrew Hist.

Hebrew (adv.). 2, 31.

\*Babylonian-Assyr. hist. 1, 31.

- \*History of Israel. 2, 31.
- Classical Aramaic. 2, 16, O.-Ja.
- Jewish Aramaic. 2, 15, F.-My.
- Assyrian (adv.). 2, 31.
- Assyrian grammar (research).

## CHARLES H. MOORE,

A.M. Asst. Prof. of Design in the Fine Arts. Harvard, '91. — Instr. in Drawing and Principles of Design, '73-'91. — Development and character of Gothic Architecture.

- \*Hist. of prechristian Heb. lit. 2, 31.
- \*Hist. Heb. relig., compared with other Semitic relig. 2, 31.
- Arabic (adv.). 2, 31.
- With Mr. Chester.

## F. D. CHESTER.

Ph.D., Harvard. Asst. in Sem. Lang. — Harv., '92-'94. — Contributions to Proc. and Journal of Am. Oriental Soc. Specialty, Arabic.

- \*Hebrew (el.). 3, 31.
- Arabic. 2-3, 31.
- [Phoenician. — Schröder's Phönizische Sprache. — Corpus Inscriptionum Semiticarum.]
- Assyrian (el.). 2, 31.

## JOHNS HOPKINS.

*Announcements of further courses.*

## PAUL HAUPT,

Ph.D. Leipzig, 1878; Prof. of the Semitic Languages. — Leipzig, '76-'79; Berlin, '79-'80. — Privatdoc. at Göttingen, '80, and Prof. of Assyriology in the same, '83; Hon. curator of coll. Oriental Antiq. in U. S. Nat. Mus.; Co-editor of *Contributions to Assyriology and Comp. Semitic Philology* and of *Assyriological Library*. — Oriental History and Archaeology, Comp. Semitic philol., O. T. Exegesis, biblical criticism, Assyrian grammar, cuneiform texts.

- Prophets of O. T. 1, 15, O.-Ja.
- Hist. Books of O. T. 1, 15, F.-My.
- Hebrew (el.). 1, 30.
- Crit. interpret. book of Eccles. 1, 30.
- Prose Comp. in Heb. Arabic. Assyrian, 1, 30.
- Assyrian Seminary. 2, 30.
- Ethiopic (el.). 1, 30.

## C. JOHNSTON,

A.M., Virginia, 1879, M.D., U. of Med., '80; Assoc. in Semitic Langs.

- Reading Heb. at sight. 1, 30.
- Assyrian (el.). 2, 30.
- Arabic (el.). 1, 30.
- Extracts from Arabic Geog. 1, 15, O.-Ja.
- Select Suras. of Koran. 1, 15, F.-My.
- Syriac (el.). 1, 30.

## MICHIGAN.

## J. A. CRAIG,

Ph.D., Leipzig, 1886; Yale, '80-'83; Leipzig, '83-'86. Instr. and Adj. Prof. of Bib. Lang. Acting Prof. of Sem. Lang., Oberlin, '91; Berlin and London, '92 and '93.

- \*[Gospel of John and Luke; I. Corinthians. 2, 17, O.-F.
- \*Galatians; Old Test.; Apocrypha. 2, 17, F.-Ju.
- \*Hebrew. — Hist. Books. 3, 34.
- \*Psalms and Prophets. 2, 34.
- \*Assyrian. — Selections from Hist. Inscriptions. 2, 34.
- \*Assyrian. — Sargon, Assurbanipal, the Deluge Descent — Ishtar. Selected Psalms. 2, 34.
- \*Hist. of Babylonia and Assyria. 2, 17, O.-F.
- \*Hist. of the Jews. 2, 17, F.-Ju.
- \*Arabic. — Koran and Murug-al-dahabi — Masudi. 2, 17, O.-F.

## PENNSYLVANIA.

*Lib. of Arabic and Hebrew Lit. 1000 vols. and 20 vols. MSS.*

## H. V. HILPRECHT,

Ph.D., Erlangen, 1885; Prof. of Assyrian and Curator of Babylonian Museum. — Leipzig and Erlangen, '80-'5. — Prof. Classic Lang. in "Fridericianum," Davos, Switzerland, '84-'5; Repetent Theol. Fac., Erlangen, '85-'6; Prof. O. T. Lang. and Theol. Sem., Mt. Airy, Philadelphia; Ed. foll. *S.S. Times and Lutheran Church Rev.*, '86. — "Freibrief Nebukadnezar's I," "Die Annalen Sanheribs," "Babylon," Babylonian inscriptions, Paul Gêhardt, various theolog. and Assyriolog. papers.

*Ethiopic:*

- Interp. of Dillman's *Chrestomathia Ethiopica*. 1, 30.

## Pennsylvania — Continued.

## Assyriology:

- Assyrian Gram. and Hist. Devel. of Cuneiform Writing. 2, 30.  
 Interp. of Selected Assyrian Texts. 1, 30.  
 Interp. of Winckler's *Altbabylonische Keilschrifttexte*. 1, 30.  
 Interp. of Evetts' *Inscriptions of the Reigns of Evil — Merodach, Neriglissar, and Laborosoarchod*. 1, 30.  
 The Public and Domestic Life of Ancient Babylonia, with interpretations of objects in the Museum. (First term). 1, 30.  
 Assyrian Seminar: Exercises in deciphering Original Clay Tablets. 1, 30.

## MORRIS JASTROW, JR.,

Ph.D. Leipzig, 1884; Prof. Semitic Languages; Breslau, '81-4; Berlin, '84; Paris, '84-5; Strasburg, '85; also Asst. Librarian, Univ. of Penn. — Grammat. works of Abu, Zakarija Chajjug; Babylonian, Phœnician and Assyrian langs.

- Introduction to study of Semitic Languages. (First term.) (With seminar.) 1, 15.  
 El. of Arabic Gram., with selected readings, selected suras from the Koran. 2, 30.  
 Prose and Political Selections from Beruit Chrestomathy. (Second term.) 1, 15.  
 The Thousand and one Nights. 1½, 30.  
 Selection from the Arabic Trans., the New Test. 1, 30.  
 Principles of Hebrew Gram., selected readings, O. T. 2, 30.  
 Introd. to Study of O. T. Book of Prophet Micah. (First term.) 1½, 15.  
 Book of Judges. Textual and Lexicographical Study. (Second term.) 1, 15.  
 El. of Gram., with reading from book of Daniel. 1, 30.  
 The Treatise Pirkê Aboth. 1, 30.  
 Semitic Epigraphy. Selected Phœnician and Aramaic inscriptions.  
 Seminar. fort., for special study.

## PRINCETON.

*Courses in Assyrian, Arabic, Syriac, Ethiopic, given in the Theol. School by Dr. Davis, Dr. Vos and Mr. Martin, are open to graduates.*

## CHALMERS MARTIN,

A.M.; Instr. in Hebrew. — Princeton Theol. Sem., '79-83. — Asst. in O. T. Dept., Princeton Theol. Sem.

Hebrew Gram. (el.) 4, 32.

## VANDERBILT.

## J. H. STEVENSON,

B.A., B.D., McGill Univ., Adjunct Prof. of Hebrew in Biblical Dept.

- \*Hebrew Gram. and Reading. 5, 32.  
 \*Hebrew (adv.). 3, 32.  
 Arabic; Reading from the Tarquins. 3, 32.

## YALE.

*The Semitic and Biblical Club holds regular meeting for discussion of original papers, review of recent literature, and reports of progress.*

## TIMOTHY DWIGHT,

A.M., D.D., Yale, '86, LL.D., Harvard, '86, LL.D., Princeton, '88. President — Memb. Amer. Com. Revision of N. T.: Ed. *New Englander*. — Biblical Exegesis, Biography. Yale College.

- The Book of Revelation. 1, 32.  
 \*The Pauline Epistles (Engl.). 1, 32.  
 \*The First Epistle and the Gospel of St. John. 1, 32.

## E. L. CURTIS,

Ph.D., Hanover Coll., 1886; Holmes Prof. Heb. Lang. and Lit. — Formerly Prof. O. T. Lit. and Exegesis, McCormick Theol. Sem. — O. T. lit., esp. prophecy.

The following courses offered by Prof. Curtis in the Theol. Sem. are open to grad. students on consent of the Instructor. Oriental Library of 4000 vols., and 90 Arabic MSS.

- Hebrew (el.). 5, 32.  
 Psalms and Isaiah. 2, 32.  
 O. T. Wisdom Lit. 1, 32.  
 Hexateuchal Crit. 2, 20, Ja.-Ju.  
 O. T. Interp. 1, 32.  
 O. T. Crit. 1, 32.

**FRANK K. SANDERS,**

Ph.D., Yale, '89; Asst. Prof. Biblical Lit. and Instr. in Semit. Lang.—Yale, '86-9.—Vice-Prin. Am. Inst. Sacred Lit., '91 foll.—Postexilic Hist., O. T. Wisdom Lit.

**HARLAN CRULMAN,**

B.D., Yale, '89; Ph.D., Yale, '94; Asst. in Sem. Lang.

The following courses are offered by Prof. Sanders and Dr. Crulman.

- \*Hebrew (el.). 4, 32.
- \*Heb. poetry, law, hist. and prophecy. 2, 32.
- Ezekiel (Heb.). 2, 12, O.-D.
- Heb. Syntax. 1, 32.

\*Arabic (el.). 2, 32.

The Qurân. 2, 12, O.-D.

Arabic poetical lit. 2, 20, Ja.-Ju.

\*Begin Assyrian. 2, 32.

Assyrian and Babylonian Inscript. 2, 12, O.-D.

Assyro-Babylonian Hist. and Lit. 2, 20, Ja.-Ju.

Biblical Aramaic. 2, 20, Ja.-Ju.

Ethiopic and Syriac. 2, 12, O.-D.

Comp. Semitic Gram. 2, 20, Ja.-Ju.

\*Sight Read. in Heb. 2, 32.

\*Bib. Lit. (Eng.). 2, 32.

\*Bib. Prob. (Eng.). 2, 32.

\*Messianic Prophecy. 1, 32.

**2. INDO-IRANIAN LANGUAGES AND LITERATURES.**

[See also 7. ]

**BROWN.**

**ALONZO WILLIAMS** [see 5].

Sanskrit. 2, 34.

**ADRIAN SCOTT** [see 5].

(With Prof. Williams.)

**BRYN MAWR.**

**EDWARD W. HOPKINS,**

Ph.D., Leipzig, 1881; Prof. of Greek, Sanskrit, and Comparative Philology.—Leipzig, '78-81; Berlin, '80; Sorbonne, Collège de France, '81.—Asst. in Latin and Instr. in Zend, Columbia, '81-4.

- \*Beginners' Sanskrit. 1, 30.
- Intro. to Zend and Zend-Avesta.

**CHICAGO.**

**CARL D. BUCK** [see also 7],

Ph.D., Yale, 1889; Asso. Prof. Sanskrit and Comp. Philology.—Yale, '86-7; Am. School at Athens, '87-9; Leipzig, '89-92.—Phonological Notes, esp. on Greek, Latin, Sanskrit, and Avestan.

- Sanskrit (el.). 4, 36, O.-Ju.
- Sanskrit (el.). 8, 12, Jul.-S.
- Old Persian. 4, 12, A.-Ju.

**COLUMBIA.**

**EDWARD D. PERRY,**

Ph.D., Tübingen, 1879; Prof. of Sanskrit.—Leipzig, '76-8; Tübingen, '78-9.—Tutor in Greek and Instr. in Sanskrit, Columbia, '80-91.—Indra in the Rig Veda, Sanskrit Primer.

\*Sanskrit (el.), [with Prof. Jackson]. 2, 30.

Sanskrit (adv.), [with Prof. Jackson]. Boehtliug's Chrestomathie, Intro. to Veda. 2, 30.

Pali (el.). 1, 30.

\*Avestan (el.), [with Prof. Jackson]. 2, 30.

\*Phonetics. 1, 30. [Omitted in '94—95.]

**A. V. WILLIAMS JACKSON,**

Ph.D., Columbia, 1886; Adj. Prof. of English Lang. and Lit., and Instr. in the Iranian Lang.—Columbia, '83-6; Halle, '87-9.—Lecturer on Mazdean Religion at Harvard, '92.—A Hymn of Zoroaster, Yasna 31; Avestan Alphabet and its Transcriptions; An Avestan Grammar in comparison with Sanskrit.

Avestan (adv.). 2, 30.

\*Old Persian inscriptions. 1, 15, O.-Ja.

\*Pahlavi. 1, F.-My.



**Columbia—Continued.**

Zoroaster. 1, 30.

Comparative Iranian Grammar. 1, 15,  
F.-My.**CORNELL.**

|[See Appendix.]

**HARVARD.***Besides numerous works on the literature and antiquities of India, the Univ. possesses nearly 1000 manuscripts of Sanskrit and Prakrit texts,—the largest collection in America.*

CHARLES R. LANMAN [see also 7],

Ph.D., Yale, 1873; Prof. of Sanskrit.—Yale, '71-3; Berlin, '73-4; Tübingen, '74-5; Leipzig, '75-6.—Sec. Am. Philolog. Ass., '79-84; ed. its Transactions, Vols. X.-XIV.; Pres. of same, '89-90; Cor. Sec. Am. Oriental Soc., '84-pr.; Fellow and Assoc. at Johns Hopkins, '76-80.—Noun Inflection in Veda; Sanskrit Reader, with vocab. and notes; various papers on Oriental philosophy and customs; edits Harvard Oriental Series.

\*Sanskrit (adv.). 3, 15, O.-Ja.

Introduction to the Vedas. 3, 16,  
F.-My.

[Adv. course in Buddhist lit. 3, 31.]

Course for beginners in Pāli. 3, 31.

Research in Sanskrit, use of manuscripts.

Cursory Sanskrit reading. 2, 15,  
F.-My.

P. E. MORE,

A.M., Asst. in Indo-Iranian Lang.

\*Sanskrit (el.). 3, 31.

**JOHNS HOPKINS.***Announcements of further courses.*

MAURICE BLOOMFIELD [see also 7],

Ph.D., Johns Hopkins, 1879; Prof. of Sanskrit and Comp. Philology.—Yale, '77-8; Johns Hopkins, '78-9; Berlin and Leipzig, '79-81.—Fellow at Johns Hopkins, '78-9; Associate, '81-3; Assoc. Prof., '83-91.—Director Am. Oriental Soc.—Ed. from MSS.: The Kāucika-sūtra of the Atharva-Veda, and the Grhyasanigraha; Interpretation of the Veda, Buddhism, Greek, and Indo-European Grammar.

Vedic Seminary: Lit. of Brāhmanas and Upanisads in relation to hymns of Vedas. 1, 30.

Lang. and lit. of Zend-Avesta. 1, 30.

Readings in Hitopadeṣa and Mann.  
2, 15, O.-Ja.

The Çakuntāla, with introduc. to

Prakrit. 1, 15, F.-My.

El. of Vedic philol. 1, 15, F.-My.

Sanskrit; gram. comp. (el.). 2, 30.

**LELAND STANFORD, JR.**

W. MILLER [see 3].

\*Sanskrit (el.). 2, 32.

**MICHIGAN.**

JAMES A. CRAIG [see 1].

\*Sanskrit—Lanman's Sanskrit Reader.

**MINNESOTA.**

J. S. CLARK,

Univ. of Minnesota, '76; Instr. in Latin and Math., '76-80; Asst. Prof. of Latin, '80-83; in Germany and Italy, '83-86; Prof. of Latin since '86.

Sanskrit, Grammar and Reader;  
Story of Nala. 4, 30.**PENNSYLVANIA.***The Pott Library, 4000 volumes, especially rich in Sanskrit and the Romance and Teutonic languages.*

MORTON W. EASTON,

Ph.D., Yale; Prof. of English and Comp. Phil.—Eng. Language. Philological subjects.

Sanskrit gram. and readings. 2, 30.  
Çakuntāla and the Veda. 2, 30.

Old Iranian gram.; Avesta. 2, 30.

Old Persian text of Behistūn inscript.  
1, 30.**PRINCETON.**

S. R. WINANS [see also 3].

Ph.D., Prof. of Greek and Instr. in Sanskrit.

\*Sanskrit gram., reading. 2, 32.

?Sanskrit and comp. gram.

**VANDERBILT.**

H. C. TOLMAN,

Ph.D., Yale, 1890; Prof. of Greek and Acting Prof. of Sanskrit.

Sanskrit Grammar and Reading. 3, 32.

WESTERN RESERVE.

SAMUEL BALL PLATNER,

Ph.D., Yale, 1885; Prof. of Latin and Instructor in Sanskrit. — Yale, '79-85; Instructor in Latin and French, Adelbert College, '85-90; Berlin. — Rome, '89-90; Asst. Prof. of Latin, Adelbert College, '90-

92; Prof. of Latin, '92. — Latin Grammar, Rom. Archaeology, Silver Latin.

\*Sanskrit. 3, S.-Ju.

YALE.

Sanskrit. 4, 32.

3. CLASSIC LANGUAGES AND LITERATURES.

[For Biblical and Patristic Greek, see 1, Semitic Languages and Literatures.]

BROWN.

J. IRVING MANATT,

Ph.D., Yale, 1873; LL. D., Iowa, 1887; Prof. of Greek Lit. and Hist. Prof. Denison Univ., '74-76; Leipzig, '77-78; Prof. of Greek, Marietta Coll., '78-84; Chancellor, Univ. of Nebraska, '84-89; Athens, '89-93. Ed. Xen. Hellenica; Contrib. to Old and New Test. Student, Andover Rev., Atlantic Mo.

The Attic Orators. 3, 34.

Plato, Republic; Aristotle, Politics and Politeia. 2, 34.

Attic Inscriptions. 1, 10, Ap.-Ju.

Contemp. Greek Lit.

Prose of Augustan Age. Devel. of Historical Writing. 3, 12, Ja.-Mr. Prose of Silver Age. 3, 10, Ap.-Ju.

BRYN MAWR.

*Library of the late Professor Hermann Sauppe of Göttingen, consisting of 9000 bound volumes, and 7000 unbound doctors' dissertations, programmes, and monographs, especially rich in inscriptions and in works on Plato, the Greek orators, Plautus, Terence, Horace, and Tacitus.*

HERBERT WEIR SMYTH,

Ph.D., Göttingen, 1884; Prof. of Greek. — Leipzig, '79-81; Göttingen, '81-3. — Instr. in Classics, Williams, '83-5; Lecturer in Greek, Johns Hopkins, '85-7, and Reader in Greek Lit. in same, '87-8. — Greek Grammar and Greek dialects.

[Attic tragedy, Æschylus, Aristotle's poetics, lectures. 4, 30.]

Attic orators. 4, 30.

[\*Æschylus, Ag. and Eumen. 2, 15 F.-My.]

BARKER NEWHALL,

Ph.D., Johns Hopkins, 1891; Instr. in Greek. Fellow Johns Hopkins, '90; Berlin, '91; Athens, '91-92. Plato and Socrates.

Epic and Lyric Poetry. 3, 34.

The Attic Drama. 3, 34.

A. G. HARKNESS,

A.M., Brown, 1882; Prof. of Roman Lit. and Hist. Berlin, Bonn, '81-83; Instr. Classics, Peddie Inst., '79-81; Prof. Lat. and Germ., Colgate Univ., '83-89; Assoc. Prof. Lat., Brown, '89-93.

Origin of Lat. Poetry and Devel. of Drama. 3, 12, S.-D.

Poetry of Repub. and Aug. Age. 3, 12, Ja.-Mr.

Poetry of Silver Age. 3, 10, Ap.-Ju.

W. G. EVERETT,

A.M., Brown, 1888; Assoc. Prof. of Philosophy. Instr. Greek, Brown, '89-90; Instr. Latin, '90-94. In charge of Latin Department, '94-95.

Prose of Republic. Devel. of Orat. 3, 12, S.-D.

E. W. HOPKINS [see 2].

[\*Demosthenes. 2, 15, O.-Ja.]

[\*Lyric Poets and Theocritus. 1, 15, O.-Ja.]

[\*Sophocles, CEd. Tyr. 1, 15, F.-My.]

Sophocles. 2, 15, O.-Ja.

Lyric Poets and Theocritus. 1, 15, O.-Ja.

Æschylus, Prometheus. 1, 15, F.-My.

G. A. BARTON [see 1].

[\*New Test. Greek. 2, 30.]

**Bryn Mawr — Continued.****GONZALEZ LODGE,**

Ph.D., Johns Hopkins, 1886; Assoc. Prof. of Latin. — Johns Hopkins, '83-6, Bonn, '89. — Prof. of Greek, Davidson Coll., '86-8; Am. School of Class. Studies, Athens, '88-9.

[Seminary. Roman Epistolography. 3, 30.]

[Early Lat. Syntax of Subord. sentences. 1, 30.]

Seminary. Roman Historiography. 3, 30.

Early Lat. Syntax of the Verb. 1, 30.

\*Plautus. 2, 15, F.-My.

\*Lat. Prose Comp. 1, 30.

**ROBERT G. BURY,**

M.A., Trinity College, Cambridge; Lect. in Greek and Lat. Lit.  
Courses to be announced.

**CALIFORNIA.****E. B. CLAPP,**

Ph.D., Yale; Prof. Greek Lang. and Lit.  
Greek Seminary.  
Republic of Plato.

**I. FLAGG,**

Ph.D., Göttingen; Assoc. Prof. Class. Phil.  
Sophocles, Plays and Fragments.

**G. M. RICHARDSON,**

Ph.D., Leipzig; Assoc. Prof. Class. Arch.  
Greek and Roman Bucolic Poetry.  
Roman Satire.

**CHICAGO.****WILLIAM G. HALE,**

A.B.; Head Prof. of Latin. — Leipzig, Göttingen, '76-7; Tutor of Latin, Harvard, '74-6, '77-80; Prof. of Latin, Cornell, '80-92; Assoc. Ed. Classical Review; joint Ed. Chicago Stud. in Class. Phil. former joint-Ed. Cornell Stud. Class. Phil. — Aims and Methods in Class. Phil.; Sequence of Tenses in Latin *cum*-constructions, *quod sciam*-clause, general condition in Lat., "Comparative clause," clause of Purpose.

Plautus. 4, 12, O.-D.

Comp. Syntax of the Greek and Latin verb (sem.). 2, 30.

Catullus and Horace. Book I. of Epistles. 4, 12, Ja.-Mr.

\*Teacher's training course. 4, 12, A.-Ju.

Teacher's training course. 4, 6, Jul.-Au.

Problems in Latin Syntax. 1, 6, Jul.-Au.

**PAUL SHOREY,**

Ph.D., Munich, 1884; Prof. of Greek. — Leipzig, Bonn, '81-2; Am. School Class. Studies, Athens, '82-3; Prof. of Greek. Bryn Mawr, '85-92.

Æschylus and Sophocles. 4, 12, O.-D.

The Greek Drama (sem.). 2, 36, O.-Ja.

Homer: Iliad (with Mr. Owen). 4, 12, Ja.-Mr.

Pindar: Olympian and Pythian Odes. 4, 12, A.-Ju.

Æschylus, Oresteia. 4, 6, A.-My.

Greek syntax in sec. sch. (teacher's course). 2, 6, Jul.-Au.

**CHARLES CHANDLER,**

A.M., Michigan, 1874; Prof. of Latin. — Denison; Instr. Latin, '74-6; Prof. Latin lang. and lit., '76-91.

Seneca. 4, 12, O.-D.

Tacitus (Seminar.). 2, 36, O.-Ju.

Horace: Epistles and Quintilian. 4, 12, Ja.-Mr.

Tacitus and Suetonius. 4, 12, A.-Ju.

\*Virgil: Georgics. 4, 6, Jul.-Au.

\*Horace: Epistles. 4, 12, Jul.-S.

\*Tibullus and Propertius. 4, 6, Au.-S.

**F. B. TARBELL,**

Ph.D., Yale, 1879; Prof. of Classical Archaeology and Greek Epigraphy. — Yale: Tutor in Greek, '76-82; Asst. Prof. Greek and Instr. in Logic, '83-7; Ann. Director Am. School at Athens, '88-9; Instr. Greek, Harvard, '89-92.

Two plays of Euripides. 4, 12, O.-D.

Plato, Protagoras and Euthyphro. 4, 12, Ja.-Mr.

Thucydides. 4, 12, A.-Ja.

**FRANK F. ABBOTT,**

Ph.D., Yale, 1891; Prof. of Latin. — Yale, '82-4; Berlin, Bonn, '88-90; Tutor in Latin, Yale, '85-8, '90-1. — Colloquial Latin and Letters of Cicero.

\*Cicero's letters. 4, 12, O.-D.

Early Latin. 4, 12, O.-D.

The Writing of Latin. 4, 12, Ja.-Mr.  
Horace (Satires) and Persius. 4, 12,  
Ja.-Mr.

The Tusculan Disputations of Cicero.  
4, 12, A.-Ju.

Roman administration. 4, 12, A.-Ju.

C. F. CASTLE,

Ph.D., Yale, 1888; Asst. Prof. of Greek.—  
Yale, '86-8; Tutor in Greek, Denison,  
'82-6; Prof. Greek, Bucknell, '88-92.

Demosthenes: Oration on Crown;  
Æschines: Selections from the Ora-  
tion against Ctesiphon. 4, 12, O.  
-D.

Attic Orators. 4, 12, A.-Ju.

Lysias: Selected Orations; Isocrates:  
Panegyricus. 4, 12, A.-Ju.

Select plays of Euripides. 4, 12, Ja.  
-Mr.

COLUMBIA.

A. C. MERRIAM [absent on leave, 1894-  
95],

Ph.D.; Prof. of Greek Archæology and  
Epigraphy.—Pres. Am. Philol. Ass. '86-7;  
Dir. Am. Sch., Athens, '87-8; Chairman  
Com. on Publicat., Athens Sch.; Chairman  
Ed. Com. Archæol. Inst. Am. since 1892.—  
Phæacians of Homer; Herodotus, VI. and  
VII. books; law code of Gortyna, Obelisk-  
crab inscripts, etc.

\*Greek Art from Monuments. 1, 30.

\*Topog., Mythol. and Monuments of  
Ancient Greece. 1, 30.

Hist. inscripts. and hist. Attic alpha-  
bet. 1, 30.

Inscripts. relat. to gov., relig., and  
private life. 1, 30.

Arch. inscripts. and Greek alphabets.  
1, 30.

E. D. PERRY [see 2].

\*Rapid Reading of Greek Trag. 2, 30.  
Greek Dialects. 2, 30.

Plato's Republic, Symposium, and  
Phædrus. 2, 30.

\*Pindar and Theocritus, and Aga-  
memnon of Æschylus. Frogs of  
Aristophanes; Demosthenes De  
Corona, with parts of Æschines in  
Ctesiphontem. 2, 30.

C. H. YOUNG,

A.M., Ph.D., Col. — Instr. in Greek, Col.,  
1888-91. Am. School, Athens, '91-92.

\*New Test. Epistles. 1, 30.

\*New Test. Gospels and Acts. 1, 30.

W. C. LAWTON,

A.B.

\*Epic and Lyric Greek Poets. 1, 30.

\*Greek Drama. 1, 30.

M. L. EARLE,

Ph.D.

\*Sophocles Antigone and Cædipus Rex.  
Sel. from Thuc. 3, 30.

\*Æschylus, Prometheus and Septem  
Contici. Thebes: Demosthenes,  
Olynthiacs and Philippics. Plu-  
tarch's Life of Demosthenes. 2, 30.

\*Textual criticism. 1, 30.

H. T. PECK,

Ph.D., Columbia, 1883; Prof. of Latin  
Lang. and Lit. — Columbia, '81-3; Berlin,  
'88-90. — Columbia: Tutor in Latin, '84-6;  
Acting Prof., '86-8. — Suetonius, Latin Pro-  
nunciation, Dict. of Classic Lit. and Antiq.  
Ed. (with Prof. Pease of Leland Stanford,  
Jr.) Student's Series of Latin Classics.

\*Terence, Andria and Heauton Timoni-  
menos. 1, 30.

\*Latin Bibliography. 1, 30.

\*Rapid Reading of Juvenal and Per-  
sius. 2, 30.

\*Hist. and Devel. of Latin Lang. to  
the Present Day. 2, 30.

Hist. Greek and Roman Prose Fiction.  
1, 30.

JAMES C. EGBERT,

Ph.D., Columbia, 1885; Instr. in Latin. —  
Columbia, '81-5; Berlin, summer, '91. —  
Columbia: Tutor in Latin, '88-91. — Latin  
Epigraphy, Ed. Macmillan's *Shorter Latin  
Course*.

\*Intro. to Lat. Epigraphy. 1, 30.  
Lat. epigraphy: Imper. period.  
1, 30.

\*Apology of Tertullian. 2, O.-Ja.

\*Satires of Juvenal. Roman Satirists.  
2, O.-Ja.

\*Epigrams of Martial. 2, F.-My.

\*Hist. and Dialogues of Tacitus. 3, 30.

\*Vulgate, Plebeian Latin. 2, F.-My.

N. G. MCCREA,

Ph.D.

**Columbia — Continued.**

- Tusculanae of Cicero. 2, O.-Ja.  
 Epistles of Seneca. 2, F.-My.  
 Plautus, Rom. Comedy. 2, 30.  
 Georgics of Vergil. 2, 30.

**CORNELL.**

[See Appendix.]

**HARVARD.**

*Seminary of Classical Philology, conducted by  
 instructors in the department, is held twice  
 weekly, 1½ h. Lib. of classics and classical  
 philol., 17,848 vols.*

**WILLIAM W. GOODWIN,**

Ph.D., Göttingen, 1855; LL.D., Cambridge,  
 Eng., '83; Columbia, '87; Edinburgh, '90;  
 Harvard, '91; D.C.L., Oxford, '90; Eliot  
 Prof. of Greek Lit.—Göttingen, Berlin,  
 Bonn.—Dir. Am. School at Athens, '82-3;  
 Ed. (with others) Papers of Am. School at  
 Athens, Vols. I.-IV.—Greek Gram., An-  
 tiquities, History, Literature.

- \*Demosthenes (On the Crown, with  
 parts of Oration on Embassy).—  
 Aeschines (v. Ctesiphon). 3, 16,  
 O.-Ja.

- \*Plato's republic, Aristotle's ethics.  
 3, 31.

[Æschylus. 3, 31.]

The Politics of Aristotle. 2, 16,  
 F.-Ju.

[The Const. Hist. of Athens and Pro-  
 cess of Ath. Courts. 2, 31, Fe.-Ju]

Pindar. 3, 16, O.-Ja.

Directs seminary.

**J. B. GREENOUGH [see also 7],**

A.B.; Prof. of Latin.—Latin comp. and  
 gram., the subjunctive.

- \*Practice in Latin expression and  
 style. 1, 30.

- \*Lucretius. 3, 15, F.-My.  
 Latin Grammar (Syntax). 3, 16,  
 Fe.-Ju.

Cicero's Exposition of Greek Philos-  
 ophy. 3, 16, O.-Ja.

[The Private Life of the Romans (first  
 course). 3, 31.]

The Private Life of the Romans (sec-  
 ond course). 3, 31.

**FREDERIC D. ALLEN,**

Ph.D., Leipzig, 1870; Prof. of Classical  
 Philology.—Prof. Greek and Latin, Univ.  
 Tennessee, '66-8, '70-31 Tutor in Greek.

Harvard, '73-4; Prof. Anc. Lang., Cin-  
 cinnati, '74-9; Prof. Greek, Yale, '79-80,  
 —Greek Gram. and Metres, Early Latin,  
 etc.

[History of Greek Lit. 3, 31.]

- \*Æschylus (Seven against Thebes).—  
 Sophocles (Antigone).—Aristoph-  
 anes (Frogs). 3, 16, F.-Ju.

[Latin Grammar—Sounds and Inflex-  
 ions.]

Lectures on Greek Gram., with study  
 of Dialectic Inscriptions. 3, 31.

The Roman Comedy.—Lectures.—  
 Study of the Menæchmi of Plautus.

3, 16, O.-Ja.

Directs seminary.

**CLEMENT L. SMITH,**

A.M., Haverford, 1863; LL.D., Haverford,  
 '88; Prof. of Latin.—Göttingen, '65-6.—  
 Asst. Prof. Classics and Math., Haverford,  
 '63-65; Prof. Greek and German, Swarth-  
 more, '69-70; Harvard: Tutor in Latin,  
 '70-3; Asst. Prof. Latin, '73-83; Dean,  
 Harvard Coll., '82-91.—Var. philological  
 papers, chiefly on interpretation of Latin  
 poets; Co-ed. (with Prof. Peck, Yale) of  
*Coll. Ser. Latin Authors.*

- \*Catullus and the Elegiac Poets. 3, 16,  
 Fe.-Ju.

\*Plautus. 3, 16, O.-Ja.

\*History of Latin Lit. (Prose). 3, 31.

[\*Hist. Latin lit. (poetry). 3, 31.]

**JOHN H. WRIGHT,**

A.M., Dartmouth, 1873; Prof. of Greek.—  
 Leipzig, '76-8.—Asst. Prof. Greek and  
 Latin, Ohio State Univ., '73-6; Assoc.  
 Prof. Greek, Dartmouth, '78-86; Prof.  
 Class. Phil., Johns Hopkins, '86-7; Sec.  
 Am. Phil. Ass., '84-9; Vice-Pres. of same,  
 '92-93; Assoc. Ed. *Classical Review*, '84-pr.  
 —Greek Hist., Archaeology, Literary Hist.  
 and Criticism, Class. and Coll. Education.

[Absent for year '94-95.]

[Introd. to Greek Epigraphy and  
 Palæography. 2, 31.]

[Sophocles. 3, 31.]

[Greek hist., 600-300 B. C. 3, 31.]

**A. A. HOWARD,**

Ph.D., Harv., 1885; Asst. Prof. of Latin.—  
 Prof. Lat. Lang. and Lit., Univ. of Cal., '88-  
 90; Tutor in Latin, Harv., '90-93.—On the  
 use of the Perfect Infin. in Latin with the  
 force of the present.—The ἀκλός or Tibia.

- \*Horace, Pliny, Juvenal (select satires  
 and letters). 3, 31.

JOHN WILLIAMS WHITE,

Ph.D.; Prof. of Greek.

[The Comedies of Aristoph. 2 or 3, 16, Fe.-Ju.]

\*The Life of the Ancient Athenians. 2 or 3, 31.

Disputed Questions in Athenian Topography. 1, 31.

M. H. MORGAN,

Ph.D.; Asst. Prof. Greek and Latin.

\*Greek Prose Composition (fourth course). 1, 31.

Introd. Course in the Text-Criticism and Interp. of Classical Authors: for 1894-95, Andocides. 1 or 2, 31.

C. P. PARKER,

A.B.; Instr. in Greek and Latin.

Stoicism in the First and Second Centuries. 3, 16, Fe.-Ju.

JOHNS HOPKINS.

BASIL L. GILDERSLEEVE,

Ph.D., Göttingen, 1853; LL.D., William and Mary, '69; Harvard, '68; Prof. of Greek Lang. and Lit.—Berlin, '50-1; Göttingen, '51-2; Bonn, '52-3. — Prof. of Greek, Virginia Univ., '56-76; Ed. *Am. Jour. Philology*, '80-pr. — Latin Gram., Greek Syntax. Edited: Persius, Justin Martyr, Pindar.

Aristoph. and the Old Attic Comedy. (Seminary.)

Practical exerc. in Greek transl. 2, O.-D.

Readings in Æsch., Soph., and Eurip., Aristophanes and his times. 1, 12, Ja.-My.

Lectures of Greek Syntax and Style. 1, 30.

C. W. E. MILLER,

Ph.D., Johns Hopkins.

Lectures and exerc. on Greek metres.

MINTON WARREN,

Ph.D., Strassburg, 1879; Prof. of Latin. — Yale, '71-2; Leipzig, '76-7; Bonn., '78; Strassburg, '79. — Enclitic *us* in early Latin; on Latin glossaries; on Bentley's MSS. of Terence; var. Etymolog. notes, etc.

Roman Satire. (Seminary.) 2, 30.  
Lectures on Roman Satire. 1, 15, O.-Ja.

Fragm. of Lucil. and Varro; Apocolocyntosis of Seneca; Petronius. 1, 15, O.-Ja.

Persius. 1, 15, F.-My.

Hist. Latin gram., esp. Verb-Forms. 1, 30.

Journal Club. Reports on articles in philol. periodicals.

KIRBY W. SMITH,

Ph.D., Johns Hopkins, 1889; Assoc. Prof. of Latin.

Lectures on eleg. and lyric poets. 1, 15, F.-My.

LELAND STANFORD, JR.

A. T. MURRAY,

Ph.D., Johns Hopkins, 1890; Prof. of Greek. — Johns Hopkins, '85-88; Fellow, '87-88; Leipzig and Berlin, '90-91; Prof. of Greek, Earlham College, '88-90; Prof. of Greek, Colorado College, '91-92. — On Parody and Paratragedia in Aristophanes.

Greek Seminary, Aristophanes. 2, 32.

Greek Comedy. 1, 32.

Readings in Aristoph. 1, 14.

Greek Syntax. 1, 18.

H. R. FAIRCLOUGH,

A.M., Univ. of Toronto, 1886; Assoc. Prof. of Greek and Latin. — Fellow, Univ. College, Toronto, '83-84; Graduate Scholar, Johns Hopkins, '86-87; Fellow, 1887; Master, Brockville High School, '84-86; Lecturer in Greek and Ancient Hist., Univ. College, Toronto, '87-93; Examiner in Univ. of Toronto and Trinity University.

Vergil's Georgics. 1, 18.

E. M. PEASE,

A.M., Univ. of Colo., 1885; Prof. of Latin Lang. and Lit. — Johns Hopkins, '82-85; Graduate Scholar, '83-84; Fellow, '84-86; Bonn, 1885, 1891; Instr. in Latin, Smith College, 1886; Prof. of Latin, Bowdoin, '86-91. — On the Relative Value of the MSS. of Terence; Reviews and Reports; Ed. (with Prof. Peck of Columbia College) Students' Series of Latin Classics.

Latin Seminary, Vergil. 2, 32.

Epic Poetry. 1, 14.

Latin Grammar; Cases. 1, 18.

Practical Exercises in compos. 2, 14.

Leland Stanford, Jr. — *Continued.*

Journal Club. 1, 32.

\*Teachers' Course. 2, 14.

\*Fragments of Early Latin. 1, 18.

## WALTER MILLER,

A.M., Univ. of Mich., 1884; Assoc. Prof. of Latin and Archaeology.—Leipzig, '84-85, '89-91; senior, Royal Archaeological Seminary, 90-91; Amer. School at Athens, '85-86; Instr. in Greek, Univ. of Mich., '86-87; Instr. in Latin and Sanskrit, '87-88; Acting Asst. Prof. '88-89; Assoc. Prof. of Greek, Univ. of Mo., '91-92.—"A History of the Akropolis of Athens"; "The Theatre of Thoricus"; "Latin Prose Comp. for College Use. Part I., Livy; Part II., Cicero."

\*Archæological Seminary. *Pausania Descriptio Arcis Athenarum.* 1, 32.

## MICHIGAN.

*Reports on Current Lit. in Latin Philol.*, 1 h. weekly. 1 fellowship of \$500.

## M. L. D'OOGHE [see 14],

Ph.D., Leipzig; LL.D.; Prof. of Greek Lang. and Lit.

Teachers' Seminary. 2, 34.

Seminary in tragedy: Soph. and Eurip. 3, 17, O.-F.

Odes of Pindar. 3, 17, O.-F.

Homer and epic poetry. 3, 17, F.-Ju.

## A. H. PATTENGILL,

A.M.; Prof. of Greek.

Plato: Euthydemus and Symposium. 3, 17, O.-F.

Bucolic Poets: Theocritus, Bion, Morchus. 4, 17, F.-Ju.

## H. F. DE COU,

A.M.; Instr. in Greek.

Greek rhetoricians: Aristotle, Hermodemus. 2, 17, O.-F.

Greek writing. 2, 17, F.-Ju.

Greek dialects, texts, and inscriptions. 2, 17, F.-Ju.

## F. W. KELSEY,

Ph.D., Univ. of Rochester; Prof. of Latin Lang. and Lit.—Formerly Prof. of Latin, Lake Forest Univ.—Ed. Latin text-books: Lucretius, Cicero: de Senectute and de Amicitia; Cæsar; Ovid; Cicero.

Seminary in Lucretius. 2, 34.

\*Teachers' Sem.: Cæsar, Cicero, Vergil. 3, 34.

\*Intro. to classical philology. 3, 17, O.-F.

\*Latin inscriptions. 3, 17, F.-Ju.

## J. C. ROUFE,

Ph.D., Cornell, 1885.—Prof. of Latin. Instr. in Latin, Cornell, '89-5; Instr. in Greek and Latin, Harvard, '89-90; Asst. Prof. Latin, Michigan, '90-2; Acting Prof. Latin Lang. and Lit., Michigan, '92-3; Junior Prof. Latin, Michigan, '93-4.—Articles in *Am. Jour. Archaeology* and *Harvard Stud. in Class. Phil.*

\*Seminary in Latin masterpieces. 3, 17, O.-F.

\*Latin Gram. 4, 17, F.-Ju.

\*Latin writing. 2, 17, O.-F.; 3, 17, F.-Ju.

Cicero's letters. 3, 17, F.-Ju.

## J. H. DRAKE,

A.B.; Asst. Prof. of Latin.

Suetonius and Velleius Paterculus. 3, 17, O.-F.

\*Historical Proseminary. 3, 17, F.-Ju.

## C. L. MEADER,

A.B.; Instr. in Latin.

\*Institutes of Gaius and Justinian. 3, 17, F.-Ju.

## H. A. SANDERS,

A.M.; Instr. in Latin.

\*Minor Latin Poets. 3, 17, O.-F.

## MINNESOTA.

## JABEZ BROOKS,

D.D., Wesleyan, 1850.—Principal of Seminary at Watertown, Wis., two years; Prof. of Greek and Mathematics at Lawrence University two years; principal of preparatory department of Hamline University, 1854 and 1855; pres. of Hamline University, 1860-1869; Prof. of Greek at the U. of Minn. since 1869.—Brook's Attic Greek.

## J. C. HUTCHINSON,

B.A., Univ. of Minn., '76.—Instr. in Greek and Latin, U. of Minn., 1876-1880; Assoc. prof. of Greek and Math. 1880-1893; Assoc. prof. of Greek since 1893.

*Greek. (a) Greek Poetry.* Epic, lyric, dramatic, bucolic, with the crit. reading of authors. 1, 30.

*(b) Greek Oratory,* with the crit. reading of authors. 1, 30.

J. S. CLARK,

B.A., Univ. of Minn., '76.—Instr. Latin and Math., 1876-1880; Asst. prof. of Latin, 1880-1883; travelled and studied in Germany and Italy, 1883-1888; Prof. Latin since 1886.

Roma Drama. 2, 30.

# PENNSYLVANIA.

*The Deutsch Library, formerly the property of the late Prof. Ernst von Leutsch, of Göttingen, purchased by Univ. of Penn., comprises over 20,000 volumes.*

W. A. LAMBERTON,

A.M., Univ. of Penn.; Litt. D., hon., Univ. of Penn., 1894.—Prof. Greek Lang. and Lit., Dean of Dept. of Philosophy, Instr. Lat. and Gr., Selinger Univ., '69-73; Instr. Math., Selinger Univ., '73-78; Prof. Lat. and Greek, Selinger Univ., '78-80; Prof. Greek, Selinger Univ., '80-88.—Thucydides, *Ilios* with accus.; Antigone, Classical and Philological Subjects.

Homer. 1, 30.

Lectures on Greek Literature. 1, 30.

Demosthenes de Corona and de Falsa Legatione with collateral reading. 2, 30.

Greek Archæology. 1, 30.

ALFRED GUDEMAN,

Ph.D., Berlin, '87.—Asst. Prof. Classical Philology; Columbia, Berlin, Johns Hopkins.—"Tacitus de Oratoribus"; Classical Philology.

\*Aristotle's Poetics, with lectures on his Life and Writings. 1, 30.

\*Plutarch's Life of Cicero, with reference to the sources. 1, 30.

These two courses do not count for Ph.D. degree.

Lectures on Roman Literature. 1, 30.

Latin Epigraphy. 1, 15.

Seminary, Plautus. 14, 30.

# PRINCETON.

H. C. CAMERON,

Ph.D.; Prof. Greek Lang. and Lit.

\*Readings and lects. on Greek trag. 2, 32.

W. A. PACKARD,

Ph.D.; Kennedy Prof. Latin Lang. and Lit. and the Science of Lang.

\*Lucretius: de Rerum Nat.; Cicero: de Nat. Deorum, etc. 2, 32.

Selections Tertullian, Lactantius, Augustine. 1, 32.

S. S. ORRIS,

Ph.D.; Ewing Prof. Greek Lang. and Lit. and Instr. Greek philos.

\*Plato: Protagoras. 2, 16, F.-My.

\*Aristotle: Nicomachean Ethics. 2, 16, O.-Ja.

Plato: Phædo and Republic; Platonic philos. 1, 32.

S. R. WINANS [see 2].

\*Homer's Odyssey, lects. 2, 16, F.-My.

A. F. WEST.

\*Roman oratory. 2, 16, O.-Ja.

\*Early Lat. poetry. 2, 16, F.-My.

J. H. WESCOTT [see 11].

The Inst. of Justinian. 2, 16, F.-My.

# VANDERBILT.

J. H. KIRKLAND,

A.M., Wofford, 1878; Ph.D., Leipzig, 1885; Prof. of Latin.

\*Tacitus and Juvenal. 2, 16.

\*Plautus and Terence. 2, 16.

\*Comp. and Lit. 1, 32.

Latin Seminary: Plautus. 2, 32.

Lectures on Roman Comedy. 1, 32.

H. C. TOLMAN,

Ph.D., Yale, 1890; Prof. of Greek.

\*Thucydides. 2, 16.

\*Soph. and Aristoph. 2, 16.

\*Comp. and Lit. 1, 32.

Greek Seminary; Homer. 2, 32.

Greek Lit., lectures. 1, 32.



## WESTERN RESERVE.

## A. L. FULLER,

Ph.D., Erlangen, 1888.—Prof. of Greek, Dartmouth, '81-85; Leipzig, '85-87; Erlangen, '87-88; Instr. in Latin and French, Adelbert College, '89-90; Prof. of Greek, College for Women, W. R. U., '90-93.—Greek Drama, Encyclopedia of Classical Philology.

Greek Antiquities. 3, F.-Ju.

\*Plato. 2, S.-Ja.

\*Greek Prose Comp. 1 S.-Ja.

## H. N. FOWLER,

Ph.D., Bonn, 1885; Prof. of Greek.—Harvard, '76-80; Classical Master in Marston's University School, Baltimore, '80-82; Johns Hopkins, '80-81; Amer. School at Athens, '82-83; Berlin, '83-84; Bonn, '84-85; Instr. in Greek, Latin, and Archæol., Harvard, '85-88; Instr. in Latin, Phillips Exeter Academy, '88-90; Prof. of Latin, Phillips Exeter, '90-92; Prof. of Greek, Univ. of Texas, '92-93; Prof. of Greek, College for Women, W. R. U., 1893; Lit. ed. of *American Journal of Archaeology*.—Various classical text-books and papers on classical and archæological subjects.

Introduction to Greek Epigraphy. 3, S.-Ja.

Plato's Republic and Aristotle's Politics. 3, S.-Ja.

A selection will be made from the following:—

\*Epic and Didactic Poetry. 3, S.-Ja. or F.-Ju.

\*Attic Orators. 3, S.-Ja. or F.-Ju.

\*New Testament Greek. 3, S.-Ja. or F.-Ju.

\*Drama.

\*Archæology. 3, F.-Ju.

## SAMUEL BALL PLATNER [see 2].

Letters of the Younger Pliny. 1, S.-Ja.

\*Roman Archæology. 3, S.-Ja.

\*Silver Latin. 3, F.-Ju.

## E. M. PERKINS,

A.B., Vassar, 1879.—Instr. in Classics, Central High School, Cleveland, Ohio, '79-92; Assoc. Prof. of Latin, College for Women, W. R. U., '92-93; Prof. of Latin, 1893.

Roman Drama. 3, S.-Ju.

Roman Satire. 3, S.-Ju.

Methods of Teaching Latin. 1, S.-Ja.

Latin Prose Comp. 3, F.-Ju.

## WISCONSIN.

## CHARLES FOSTER SMITH,

Ph.D., Leipzig; Prof. of Greek and Classical Philology.—Prof. in Vanderbilt Univ., '82-94; Univ. of Wis., 1894.

Announcement of courses not yet made.

## G. L. HENDRICKSON,

B.A., Johns Hopkins; Prof. of Latin.

Historical Latin grammar (sounds, forms, and syntax). 2, 36.

Latin Seminary (Tacitus' Dialogues and the literary epistles of Horace). 2, 36.

## YALE.

*Class. club meets every Saturday evening for reading and discussing some classic author, and reports and papers in the field of Greek and Latin Philology. Library contains over 1000 volumes.*

## TRACY PECK AND T. D. SEYMOUR.

Classical Seminary. 2, 32.

## A. Latin.

## TRACY PECK,

A.M.; Prof. Latin Lang. and Lit.—Berlin, Bonn, Jena, Sorbonne, '62-64, '68-69; Prof. Latin, Cornell, '71-80. Ed. (with C. L. Smith, Harvard) *Coll. Series Lat. Authors*.—Pronunciation, Alliteration, Quantity.

Latin Philology. 1, 32.

[omitted 1894-95.]

\*Prose Latin of 1st cent. 3, 32.  
(Tacitus, Suetonius, Pliny's Letters.)

[omitted 1894-95.]

\*Roman Satire. 2, 32.

[omitted 1894-95.]

(Lucilius, Horace, Persius.)

[omitted 1895-96.]

Early Latin. 1, 32.

[omitted 1895-96.]

\*Hexameter Poetry. 3, 32.

[omitted 1895-96.]

\*On Roman Oratory. 2, 32.  
(Cicero, Quintilian, Tacitus.)

[omitted 1895-96.]

H. P. WRIGHT AND E. P. MORRIS.

- \*Satire and Comedy. 2, 32.  
(Juvenal and Martial. Plautus.)
- \*Lyric and Elegiac Poetry. 2, 32.  
[omitted 1894-95.]  
(Horace, Catullus, Tibullus, and Propertius.)

H. P. WRIGHT [see above],  
Ph.D., Yale, 1876; Prof. Latin and Dean of College Faculty.

E. P. MORRIS [see above],  
A.M., Williams, 1884; Prof. Latin. — Prof. Math., Lake Forest; Prof. Greek, Drury Coll.; Prof. Latin and Greek, Williams. — Mostellaria and Pseudolus of Plautus; sentence question.  
Hist. Syntax. 1, 32.  
Plautus. 1, 32.  
\*Cicero's Letters. 2, 32.  
\*Conspiracy of Catiline. 1, 32.  
[omitted 1894-95.]

H. F. ROBERTS,  
A.M.; Tutor in Greek and Latin.  
\*Terence. 2, 12, O.-D.  
(Andria, Phormio, Adelphi.)  
\*Virgil. 2, 20, Ja.-Ju.  
\*Terence. 2, 12, O.-D.  
(Hecyra, Heauton, Timoroumenos, Eunuchus.)  
[omitted 1894-95.]  
\*Cicero. 2, 20, Ja.-Ju.  
(Philippic orations.)  
[omitted 1894-95.]

J. J. ROBINSON,  
Ph.D., Yale, 1888; Instr. Latin.  
\*Latin Prose Comp. 2, 32.

G. V. THOMPSON,  
Ph.D., Yale, 1894; Instr. Latin.  
\*Livy. 2, 32.  
\*Ovid. 2, 32.  
[omitted 1894-95.]

H. R. LANG [see 6].  
Low Latin. 1, 32.

B. Greek.

T. D. SEYMOUR,  
A.M., Yale, 1870; Hillhouse Prof. Greek; Prof. Greek, W. Reserve; Co.-Ed.: Coll. series, Gk. — Auth. *Class Review*. — Greek, esp. Homeric Lang. and Lit.

Æschylus. 3, 32.  
[omitted 1894-95.]

Plato. 2, 32. [om. '94-95.]  
\*Æschylus and Pindar. 2, 32. [om. '94-95.]  
\*Plato. 2, 32. [om. '94-95.]  
Greek Orators. 3, 32. [om. '95-96.]  
Homer. 2, 32. [om. '95-96.]  
\*Phaedo of Plato. 2, 12, O.-D.  
\*Aristotle's Nicomachean Ethics. 2, 20, Ja.-Ju.  
\*Homer, Theocritus and the Lyric Frags. 2, 32.

T. D. GOODELL,  
Ph.D., Yale, 1884; Prof. Greek, Yale. — Sophoclean Genitives; Greek word order; Athenian Pol. Antiq.  
Sophocles. 2, 32.  
The Teaching of Greek (Lect.).  
The Ath. Commonwealth. 2, 12, O.-D.  
Greek Comp. 2, 20, Ja.-Ju.  
Intr. to Greek Arch. 1, 32.  
[Prof. Goodell's courses will be omitted 1894-95.]

C. L. KITCHEL,  
M.A.; B.D., 1867; Instr. Greek.  
\*Demosthenes. 2, 32.

H. M. REYNOLDS,  
A.B., Yale, 1880; Prof. Greek.  
Later Greek Poetry. 1, 32. [om. '94-95.]  
\*The Age of Pericles. 2, 32. [om. '94-95.]  
Aristotle's Poetics. 1, 32. [om. '95-96.]  
\*Euripides. 2, 32. [om. '95-96.]

BERNADOTTE PERRIN,  
Ph.D., Yale, 1873; Prof. Greek. — Formerly Prof. Gk., Adelbert Coll.  
Pausanias. 1, 32. [om. '94-95.]  
\*Aristophanes. 2, 32. [om. '94-95.]

## Yale — Continued.

The Tradition of the Hist. of Alexander. 3, 32. [om. '95-96.]

\*Lucian. 1, 32. [om. '95-96.]

## C. L. BROWNSON,

A.B., Yale, 1887; Tutor Greek and Latin.—Greek Theatre.

Modern Greek. 1, 32.

\*Greek Comp. 1, 32.

ARTHUR FAIRBANKS (see 8.)

Greek Worship and Belief. 1, 32.

HANNS OERTEL [see 7].

Comp. Phonol. and Morph. of Greek and Latin. 3, 32. [om. '95-96.]

Greek Dialects. 3, 32. [om. '94-95.]

## 4. ENGLISH LANGUAGE AND LITERATURE.

## BROWN.

## JOHN M. MANLY,

Ph.D., Harvard, 1890; Prof. of the English Language.—A.M., Furman Univ., '83; Instr., William Jewell Coll., Mo.; Associate Prof. Engl. Lang. and Lit., '91-92.

Shakspere and Eng. Drama. 3, 34.

Anglo-Saxon. 3, 22, Ja.—Ju.

Anglo-Saxon Poetry. 3, 34.

Middle English. 3, 34.

18th cent. Lit. 3, 34.

## WILLIAM C. BRONSON,

A.M., Cornell, 1890; Assoc. Prof. English Literature.—Fellow in Engl., Cornell, '89-90; Prof. English, DePauw, '90-92.

Shakspere's Dram. Art. 3, 34.

American Literature. 3, 22, Ja.—Ju.

Seminary: Browning, Emerson,

Tennyson. 1 (2), 34.

## LORENZO SEARS,

L.H.D., Trinity, 1892; Assoc. Prof. Rhetoric and Oratory.—A.B., Yale, '61; A.M., Trinity; Grad. Genl. Theol. Sem., N. Y., '64; Prof. Rhet. and Eng. Lit., Univ. Vermont, '85-90.

History of Oratory. 1, 34.

Advanced Compos. Themes. 1, 34.

Advanced Compos. Theses. 1, 34.

## BRYN MAWR.

*1 fellowship of \$525.*

## M. CAREY THOMAS,

Ph.D., Zürich, 1882; Prof. of English.—Johns Hopkins, '77-8; Leipzig, '79-82; Zürich, '82; Paris, '83.

Elizabethan and Jacobean drama. 2, 30.

Seminary [with Dr. Bruce.]

## MARY GWINN,

Ph.D., Bryn Mawr, 1883; Assoc. in English.—Leipzig, '79-82; Zürich, '82; Paris, '83; Bryn Mawr, '85-88.

Elizabethan and Jacobean drama; drama of restoration. 3, 30.

Eng. Critics of Life; Burke, Carlyle, and Ruskin. 3, 30.

Review of Rhetorics. 1, 30.

17th cent. prose writers. 1, 30.

## JAMES D. BRUCE,

Ph.D., Johns Hopkins, '94; Assoc. in Anglo-Saxon.—Berlin, '86-88; Strassburg, '88; Johns Hopkins, '89-90.

[Beowulf. 2, 30.]

[Old English phonol. 2, 30.]

[Review of Anglo-Saxon Lit. 1, 30.]

[Elene and Andreas. 3, 30.]

Middle English phonol. 1, 30.

## CALIFORNIA.

## C. M. GAYLEY,

A.B., Michigan; Prof. Eng. Lang. and Lit.

History of Æsthetic Theory.

## C. B. BRADLEY,

A.M., Oberlin, Prof. Rhetoric.

Relation of Eng. Lit. to the Mediæval Spirit.

## A. F. LANGE,

Ph.D., Michigan; Asst. Prof. English.

German Influence on Eng. Lit.

Eng. Phil.

CHICAGO.

W. C. WILKINSON,

D.D.; Prof. Poetry and Criticism. — Paris, 1861-2; Prof. Mod. Lang., Rochester, '63-64; Prof. Homiletics and Pastoral Theol., Roch. Theol. Sem., '72-81.

History and Fiction: Crit. study masterpieces. 4, 12, O.-D.  
Criticism of criticism. 4, 6, N.-D.  
Blank Verse. 4, 12, O.-D.

R. G. MOULTON,

Ph.D., Univ. of Penn., 1891; Univ. Exten.; Prof. Eng. Lit.

Spencer's "Faerie Queen." 4, 12, Ja.-Mr.  
Literary Interpretation. 4, 12, A.-Ju.

W. D. MCCLINTOCK,

A.M.; Asst. Prof. Eng. Lit. and Dean in the Coll. of Lit. — Johns Hopkins, '80-82; Prof. Engli., Wells Coll., '89-91.

Elements of lit. 5, 12, Jul.-S. and M.-Ju.  
Eng. lit. criticism. 4, 12, Jul.-S. and Mr.-Ju.  
Romantic Movement. 5, 12, O.-D.  
Romantic Poets, 1780-1830. 5, 12, O.-D.  
\*Dev. of Eng. novel from Richardson to George Eliot. 5, 12, Ja.-Mr.  
\*Milton's English writings. 5, 12, Ja.-Mr.

F. A. BLACKBURN,

Ph.D., Leipzig, 1892; Asst. Prof. English Lang. — Michigan, '69-70; Leipzig, '75-6, '89-92; Instr. Latin, Michigan, '71-5; Former Teacher Classics and Eng., Belmont School, Cal.

Old Eng. lit. 4, 12, A.-Ju.  
Old Eng. seminary (adv.). 2, 12, every quarter.  
Old Eng. (adv.). 4, 12, O.-D.  
\*Middle Eng. 2, 12, Jul.-S.  
\*Old Eng. (cl.). 4, 12, Jul.-S.; O.-D.; Ja.-Mr.; A.-Ju.  
Modern English Grammar. 2, 12, Jul.-S.

MARTHA FOOTE CROW,

Ph.D., Syracuse Univ., 1885; Asst. Prof. Eng. Lit. — Syracuse; Oxford, '92.; Lect.

on Hist., Wellesley Coll., '82-4. — Poems, literary essays: Tennyson, Rosetti, Meredith.

Hist. and princip. Eng. versific. 4, 12, A.-Ju.  
Elizabethan Prose. 4, 12, O.-D.  
Drama from 1560 to 1642. 4, 12, Ja.-Mr.  
Sources of Shakspeare's Plays. 4, 12, A.-Ju.  
Elizabethan Seminar. O.-Ju.

A. H. TOLMAN,

Ph.D., Strassburg, 1890; Asst. Prof. Engl. Lit. — Johns Hopkins, '82-4.

Orig. of Eng. drama and its hist. to 1560. 4, 12, O.-D.  
Chaucer. 4, 12, A.-Ju.  
Origins of Shakspeare's Plays. 4, 12, Ja.-Mr.

COLUMBIA.

THOMAS R. PRICE,

A.M., LL.D., Prof. of English Lang. and Lit. — Berlin, Kiel, Athens (Greece), 1859-61; Prof. Greek, Univ. Virginia, '76-82; V. Pres. New York Shakspeare Soc.

\*Shakspeare: lang., versific., and prin. dramat. poetry. 2, 30.  
\*Chaucer: as above. 2, 30.  
\*Pope: as above. 2, 30.  
\*Tennyson, Browning, M. Arnold. 2, 30.  
Angl.-Sax. Prose and Hist. English Syntax. 2, 30.  
Eng. Lang. and Lit. of 11th, 12th, and 13th cents. 2, 30.

A. V. W. JACKSON [see 2].

\*Anglo-Sax. lang. and hist. Engl. gram. 2, 30.  
\*Anglo-Sax. poetry. 2, O.-Ja.  
\*Early and Middle Eng. 2, 16, F.-My,  
\*Eng. drama, exclusive of Shakspeare, to the closing of the theatres. 2, 30. [With Prof. Woodberry.]

G. E. WOODBERRY [see 7].

Spenser and Elizab. poets, excl. drama. 1, 16, O.-Ja.  
Milton and Caroline poets. 1, 14, F.-My.  
18th cent. lit. 2, 30.

## Columbia — Continued.

## BRANDER MATTHEWS,

A.M., LL.B., Columbia, 1873; Prof. of Literature. — French dramatists of 19th cent.; Sheridan's Comedies; Americanisms and Briticisms; the Rhymster; Poems of Amer. Patriotism.

Am. lit. 2, 30.

Art of Eng. versific. 1, 30.

## G. R. CARPENTER,

A.B.; Professor of Rhetoric and Eng. Comp.

\*Eng. Comp. Daily themes and fortnightly essays. Lectures and consultations. 2, O.-Ja.

\*Eng. Comp. Advanced course. 2, F.-My.

Seminar.: Hist. of Rhetoric; Methods of teaching Rhetoric and Eng. Comp. 2, 30.

## CORNELL.

(See Appendix.)

## HARVARD.

*Library very rich in all branches. In folklore and mediæval romances, the largest collection in existence (ca. 6000 vols.). All instructors offer to direct competent graduate students in research. Mod. Lit. prize of \$250. Mod. Lang. Conference.*

## FRANCIS J. CHILD,

Ph.D., Prof. of English. — English and Scottish Ballads; Old English Plays; Language of Chaucer, etc.

The English and Scottish Popular Ballads. 3, 16, O.-Ja.

With Prof. Kittredge:

\*English Literature: Shakspeare (six plays). 3, 31.

The same plays are not studied in two successive years.

With Dr. Robinson:

Early English: Old English literature from 1200 to 1450. Mätzner's Altenglische Sprachproben, with grammatical investigations. 3, 31.

## A. S. HILL,

A.B., LL.B.; Boylston Prof. Rhetoric and Oratory. — Biog. of English authors; Rhetoric; Teaching of English.

\*English Literature: Poets of the 19th cent. 2, 16, O.-Ja.

English Composition (advanced course (limited as to numbers). 3, 31.

## LE BARON RUSSELL BRIGGS,

A.M.; Prof. of English.

\*[Eng. Lit. of the 17th cent.] 2, 16, F.-My.

## BARRETT WENDELL,

A.B.; Asst. Prof. of English.

\*[Eng. Lit.: The works of Shakspeare, studied in chronological order.] 1, 31.

## GEORGE LYMAN KITTREDGE,

A.B.; Asst. Prof. of English.

Historical Eng. Grammar. 3, 16, F.-My.

Early English: The Metrical Romances. Lectures and Theses. 3, 16, F.-My.

Anglo-Saxon Poetry: *Béowulf*. 3, 16, F.-My.

[Anglo-Saxon. *Cædmon*. *Cynwulf*. *Sweet's Oldest English Texts*.] 3, 16

With Dr. Robinson:

\*Eng. Lit.: Chaucer. 3, 31.

## L. E. GATES,

A.B.; Instr. in English.

\*Eng. Lit. of 18th cent. 1, 31.

History and Principles of Eng. Versification. 1, 31.

[Eng. Lit. in its relation to German Lit., from 1790 to 1830. Research course.] 1, 31.

## G. P. BAKER,

A.B.; Instr. in English.

\*[Eng. Lit. of the Elizabethan Period.] 1, 31.

\*[Eng. Lit.: The Drama from the Miracle Plays to the closing of the Theatres.] 1, 31.

\*Argumentative Composition. 1, 31.

## F. N. ROBINSON,

Ph.D.; Instr. in English.

- \*Eng. Lit.: Bacon. 3, 16, O.-Ja.
- \*Eng. Lit.: Milton. 3, 16, F.-My.
- \*Anglo-Saxon: Bright's A. S. Reader. Introductory course. 3, 16, O.-Ja.

HAMMOND LAMONT,

A.B.; Instr. in English.

- \*Literary Criticism in England since the 16th cent. 1, 31.

J. H. GARDINER, A.B., and C. L. YOUNG, A.B.,

Instructors in English.

- (\*English Composition. Detailed criticism of Themes. 2, 31.

[Langland and Gower.] 3, 16.

JOHNS HOPKINS.

*Beowulf* coll. of 15 eds., and 34 disserts., very complete. *Fortnightly Journal Club.*

J. W. BRIGHT,

Ph.D., Johns Hopkins, 1882; Prof. English Philology. — Johns Hopkins, '79-82; Freiburg, Tübingen, Strassburg, '83-4; Johns Hopkins, Instr. in German, '82-3; Instr. and Assoc. in English, '85-91; Assoc. Ed. *Mod. Lang. Notes*; Ed. *Publications of Mod. Lang. Assoc.* — Anglo-Saxon Reader, Gospel St. Luke in Anglo-Saxon.

Seminary: Anglo-Saxon Poets; Dramatic Works of Dryden. 4, 30.

Lectures on Eng. Philol. 1, 30.

Interp. of Anglo-Saxon and Mid. Eng. texts. 1, 30.

Romanic elements in Eng. 1, 15, O.-Ja.

Conferences on philol. and lit. topics. 1, 15, F.-My.

Eng. Journal Club Reports, reviews, orig. papers. 2, fort., 30.

W. H. BROWNE,

M.D., U. of Maryland; Prof. English Lit. — U. of Maryland; Ed. *The Southern Review*; *The Southern Magazine*; *The Archives of Maryland*. — Numerous literary articles, books on historical and biographical subjects; "The Clarendon Dict. of the Engl. Lang."

Lectures on Eng. Drama of 18th cent. 1, 30.

H. E. GREENE,

Ph.D., Harvard; Collegiate Prof. of Eng. Hist. and Theory of Rhetoric. 1, 15, O.-Ja. •

LELAND STANFORD, JR.

MELVILLE B. ANDERSON,

A.M., Butler Univ., 1877; Prof. English Lit.—Prof. English Lit., Knox College, 1881-86; Purdue Univ., 1886-87; Univ. of Iowa, 1887-91; Editor "Great French Writers" Series, Bacon's Essays; contributor to "Modern Language Notes" and "Dial."

\*Wordsworth. 3, 32.

\*Shakspeare. 3, 32. Seminary. 3, 32.

EWALD FLÜGEL,

Ph.D., Leipzig, 1886; Prof. English Philology.—Privat Dozent, Univ. Leipzig, 1888-92.

\*Anglo-Saxon. 3, 32.

\*Chaucer. 3, 32.

English Lyrical Poetry. 3, 32. King Alfred and his Circle (Sem.) 4, 32.

WILLIAM H. HUDSON,

Assoc. Prof. English Lit.

\*18th cent. Lit. 3, 32.

\*19th cent. Poetry. 2, 32.

MICHIGAN.

*Lib. contains: Shakesperiana over 3500 vols.*

I. N. DEMMON,

A.M., 1871; Prof. English and Rhetoric.

\*Seminary in English Literature. 2, 17, O.-F.

\*Seminary in Shakspeare. 17, F.-Ju.

\*Seminary in American Literature. 17, F.-Ju.

\*Principles of Criticism. 1, 34.

GEORGE HEMPL,

Ph.D., Jena, 1889; Junior Prof. English.

\*Old English syntax. 17, O.-F.

\*Old English phonology and morphology. 17, F.-Ju.

\*Historical English grammar. 2, 17, O.-F.

\*Old English poetry. 2, 17, F.-Ju.

\*Spoken English. 2, 17, F.-Ju.

**Michigan—Continued.**

F. N. SCOTT,

Ph.D., 1889; Asst. Prof. Rhetoric.

Development of rhetorical theory. 34.

THOMAS C. TRUEBLOOD,

A.M.; Prof. Elocution and Oratory.

\*Study of great orators. 2, 34.

\*Oral discussions. 17, F.-Ju.

**UNIV. OF MINNESOTA.**

GEORGE EDWIN MACLEAN,

Ph.D., Leipzig, '83.—Williams College, '71; Yale Divinity, '74; University of Berlin, '82-'83; Prof. at the Univ. of Minnesota since 1884.—Text, an O. and M. Eng. Reader by Zupitza, 1886; a chart of Eng. Lit.; an O. and M. Eng. Reader with Intro., Notes, and Glossary, 1893.

[Not more than four of courses below given in one year. Length?].

O. and M. Eng. (adv.) Interp. of *Béowulf*.

Gothic in its relation to Teut. Phil., esp. to Old English. Wright's Primer of Gothic.

Old Saxon. Grammar and reading of the *Heliand*.

A Review of the Schools of Criticism. Critical Studies in the Lit. of the 18th cent. The rise of the Romantic Movement.

English Lyrics in Palgrave's *Golden Treasury*.

Typical Victorian Poets, *e. g.*, Matthew Arnold, Tennyson, Browning, William Morris.

The Evolution of the English Press. Compar. Lit. in its bearing upon Eng. Lit.

Research or Special Studies in some line selected by individual students will be guided by the department.

**PENNSYLVANIA.**

M. W. EASTON,

Ph.D., Yale; Prof. of English Language and comparative Philology.—English Language and Philological subjects.

English Philology. Lectures on Phonetics, with special reference to English sounds. 2, 30.

Anglo-Saxon: Sweet's Reader, Sievers' and March's Grammars, *Béowulf*. 2, 30.

FELIX E. SCHELLING,

A.M., Univ. of Penn., '84.—Asst. Prof. of English Literature, '88-90; Prof. of English Lit., '90-pr.; Assoc. ed. University of Penn. *Series in Philology, Literature, and Archaeology*.—Elizabethan Literature and Poetics; "Poetic and Verse Criticism"; Ben Jonson's "Timber," "Gascoigne," "Elizabethan Lyrics."

Modes of Modern Poetic Thought and Expression. 2, 30.

The Theory and History of English Versification. 2, 30.

Origin and History of the English Drama. 2, 30.

Principles of Dramatic Structure in their Application to the English Drama. 2, 30.

**PRINCETON.**

*Collection of Anglo-Sax. lit., 100 vols. 2 fellowships, worth \$600 each, and 1 fellowship, worth \$400 are open to students in this department.*

J. O. MURRAY,

D.D., LL.D.; Holmes Prof. Belles Lettres and Eng. Lang. and Lit.

\*Cowper to Tennyson. 2, 16, O.-Ja.

\*Shakspeare's plays. 2, 16, F.-My.

T. W. HUNT,

Ph.D., Litt.D.; Prof. Belles Lettres, Eng. Lang. and Lit.—Princeton, '68-71; Berlin, '71-2.—Cædmon's *Exodus* and *Daniel*; Ethical teachings in Old English Authors; English Writers; Written Discourse and Style.

\*First English. 2, 16, O.-Ja.

\*Middle English. 2, 16, F.-My.

\*Old English. 2, 16, F.-My.

Old English. 1, 32.

**WESTERN RESERVE.**

LEMUEL S. POTWIN,

D.D., Yale, 1886; Prof. of English.—Tutor in Yale, 1858-60; Prof. of Latin, Western Reserve College and Adelbert College, 1871-92; Prof. of English, Adelbert College, 1892.—Etymology; Hist. Eng. Lang.

Sources of English Literature. 3, S.-Ja.

Anglo-Saxon Poetry. 3, F.-Ju.

J. B. PERRY,

A.B., Smith College, '86; Prof. of English. — Instructor in Mathematics, Wheaton Seminary, '86-7; Instructor in English, Grant Collegiate Institute, '87-90; Instructor in English, Vassar, '90-93. — Literary Aesthetics.

Poetics. 3, S.-Ju.

\*Classicism and Romanticism. 3, S.-Ja.

\*Relation of Literary Form to Thought. 3, F.-Ju.

C. W. AYER,

A.M., Harvard, 1888; Instructor in English. — Instructor in Classics and Modern Languages in Dummer Academy, '85-87; Harvard, '87-92; Asst. in English, Harvard, '91-92; Professor of English, Wittenberg College, '92-93.

Historical English Grammar. 3, F.-Ju.

Chaucer. 3, S.-Ja.

\*History of English Versification. 3, F.-Ju.

CHARLES DAVIDSON,

Ph.D., Yale, 1892; Instructor in English. — Principal of Minneapolis Academy, '79-84; Principal of Schools, The Dalles, Oregon, '84-86; Master in English, Belmont School, California, '86-Jan., '94; Assoc. Prof. of English, Indiana Univ., Jan., '94. — Anglo-Saxon; Middle English.

Advanced Courses in English Philology and Middle English, to be arranged.

VANDERBILT.

W. M. BASKERVILLE,

A.M.; Ph. D., Leipzig; Prof. of English.

\*Milton and Bacon. 3, 16.

\*Shakspeare. 3, 16.

Old English Gram.; Lectures and readings. 2, 16.

Andreas; Beowulf. 2, 16.

English Seminary. 1, 32.

WISCONSIN.

JOHN C. FREEMAN,

A. M., Michigan; LL.D., Chicago, 1880; Professor of English Literature.

Ancient classical drama (as introduction to romantic). 2, 14, S.-D.

English drama. 2, 14, S.-D.

Shakspeare. 4, 23, Ja.-Ju.

Seminary: Browning. 2, 34 (with Professor Hubbard).

FRANK G. HUBBARD,

Ph.D., Johns Hopkins; Assistant Professor of English Literature.

Anglo-Saxon grammar. 2, 36.

Beowulf; Study of old Germanic life. 3, 22, Ja.-Ju.

YALE.

*Mod. Lang. Club meets monthly for discussion of original papers.*

THOMAS R. LOUNSBURY,

A.M., Yale, 1887; LL.D., 1892; Prof. of Eng. — Chaucer; Hist. of Eng. Lang.; Life of Cooper.

Eng. Lit. of 14th cent.

HENRY A. BEERS,

A.M., Yale, 1887; Prof. Eng. Lit. — Amer. Lit; Many Lit. Productions.

\*Hist. Eng. Romanticism. 2, 32.

Lit. of Early Stuart and Commonwealth Period. 2, 32.

ALBERT S. COOK,

Ph.D., Jena, 1882; Prof. English Lang. and Lit. — Göttingen, '77; Leipzig, '78; Jena, '81-2. — Tutor Math., Rutgers, '72-3; Asso. in Eng., Johns Hopkins, '79-81; Prof. Eng. Lang. and Lit. Univ. of California, '82-9. — Old Eng. Lang. and Lit., esp. etymol. and phonol.; epics; Caedmon. — Edited Eng. poetry and essays.

Old Eng. poetry. 1, 12, O.-D.

Old Eng. Gram. 1, 20, Ja.-Ju.

Hist. Eng. prosody. 1, 12, O.-D.

Mid. Eng. gram. 1, 20, Ja.-Ju.

Seminary in Ben Jonson.

\*Hist. Eng. Lit. 2, 32. [om. '94-95.]

\*Old and Mid. Eng. 2, 32.

\*Tennyson. 2, 12, O.-D. [om. '94-95.]

\*Shakespeare. 2, 20, Ja.-Ju. [om. '94-95.]



## Yale—Continued.

- \*Eng. Essayists. 2, 20, Ja.-Ju. [om.  
'94-95.  
\*Bacon. 2, 12, O.-D.  
\*Eng. Political Orators. 2, 12, O.-D.  
\*Browning. 2, 20, Ja.-Ju.  
\*Amer. Lit. 2, 20. Ja.-Ju.

## WILLIAM L. PHELPS,

Ph.D., Yale, 1891; A.M., Harvard, 1891;  
Instr. English. — Begin. Eng. Romantic  
Movement, a study in 18th cent. Lit. — Ed.  
Poetry and Prose of Thomas Gray; Ed.  
Wash. Irving.

- \*Elizabethan Drama. 2, 32.

## 5. GERMANIC LANGUAGES AND LITERATURES.

[See also 4 and 7.]

## BROWN.

*Seminary Library of over 6000 vols. contains  
"Conant German Seminar Library,"  
especially rich in literature of Swabian  
Era and in Goethe and Schiller Lit., as  
well as in works of art*

## ALONZO WILLIAMS,

A.M., Brown, '73; Professor of Germanic  
Languages and Literatures. — Instr. Gr. and  
Lat., Brown, '70-71; Prof. Modern Langs.,  
'76-92; Paris, Leipzig, Berlin, '76-77; Italy,  
'89; Leipzig, '91-92. — French Subjunctive;  
German Conversation and Composition.

Goethe: Sturm- und Drangperiode.  
3, 12, S.-D.

Goethe: Classical Drama. 3, 12,  
Ja.-Mr.

Goethe: Faust. 10, Ap.-Ju.

German Lit. 3, 34.

Mid. High German (adv.). 1, 34.

Gothic. 1, 34.

## A. CLINTON CROWELL,

Ph.D.; Brown, 1894; Asst. Prof. Ger-  
manic Langs. and Lits. — Berlin, '92;  
Instr. Germ. and French, Brown, '90-94.

Mid. high German: Minnesänger.  
1, 34.

Dutch Lang. and Lit. 2, 34.

Lessing as dramatist. 3, 10, A.-Ju.

Schiller as dramatist. 3, 12, S.-D.

German ballads. 3, 12, Ja.-Mr.

Heine: prose, poetry. 3, 10, A.-Ju.

## ADRIAN SCOTT,

Ph.D., Brown, 1893; Associate Prof. of  
Germanic Philology and Scandinavian.

- \*Dano-Norwegian. 1, 34.

- \*Swedish. 1, 34.

- \*Reading in physical science. 3, 34.

- \*Middle High German (Intr.). 1, 34.  
Middle High German (adv.) 2)

Court Epics. 1, 34.

Old Norse. (Int.). Prose and Poetic  
Eddas. 1, 34.

Old Norse. (adv.). Njal's Saga. 1,  
34.

Gothic. 1, 34.

Old Saxon. 1, 34.

Old high German. 1, 34.

Germanic Mythology. 1, 34.

Germanic Philology. 2, 34.

## ADOLPH C. ELY,

A.B., Brown, 1894; Instructor in German.

Modern German Literature (with  
Asst. Prof. Crowell).

## BRYN MAWR.

1 Fellowship worth \$525.

## HERMANN COLLITZ,

Ph.D., Göttingen, 1878; Assoc. Prof. Ger-  
man and Teutonic Philol. — Göttingen, '75-  
8; Berlin, '78-81; Docent, Halle, '85-6.

Gothic. 2, 30.

Old Norse. 1, 30.

Outlines Teutonic philol. 1, 30.

Mid. High Germ. Gram. and reading  
of Mid. High Germ. Texts. 2, 30.

## ROSE CHAMBERLIN,

Graduate in Honors, Newnham College, Uni-  
versity of Cambridge, England, 1886 (Medi-  
æval and Modern Languages Tripos, First  
Class); Reader in German.

Mid. High Germ. Gram. and Niebe-  
lungenlied. 2, 30.

## CALIFORNIA.

- A. PUTZKER,  
A.M., Knox; Prof. Ger. Lang. and Lit.  
German Literature.  
Hist. of German Language, Lessing.
- J. H. SENDER,  
Ph.D.; Asst. Prof. Ger.  
Old and Middle High German.  
Gothic.

## CHICAGO.

- STARR W. CUTTING,  
Ph.D., Johns Hopkins, 1892; Asso. Prof. of  
German. — Leipzig, Geneva, '86-8; Johns  
Hopkins, '90-1; Prof. German and French,  
Earlham Coll.; Asst. Prof., Univ. Chicago,  
'93-4.  
The Literary coöperation of Goethe  
and Schiller. 4, 24, O.—Mr.  
Heine's prose and poetry. 4, 12,  
O.—D.  
German prose composition. 4, 12,  
O.—D.  
Germanic sem. (with other instrs.).  
\*Schiller's Wallenstein. 4, 12, Jul.—S.  
Gothic. 4, 12, Jul.—S.

## CAMILLO VON KLENZE,

- Ph.D., Marburg, 1890. — Berlin, '87-9;  
Marburg, '89-90; Instr. Romance Langs.,  
Cornell, '91-3.  
Gothic gram. and read. 4, 12, O.—D.  
Schiller. 4, 12, O.—D.  
Goethe's Lyrical Poetry as an expo-  
nent of his life. 4, 12, O.—D.  
The Niebelungenlied. 4, 12, A.—Ju.  
Outline History of German Literature.  
4, 12, A.—Ju.  
Middle High German. 4, 12, Jul.—S.

## H. SCHMIDT-WARTENBERG,

- Ph.D., Cornell, 1888; Asst. Prof. of Ger-  
man. — Jena, Berlin, Strassburg, '81-5; Cor-  
nell, '87-8; Prof. Latin and German, U. of  
Utah, '88-90; Prof. Mod. Lang., U. of So.  
Dakota, '90-1; U. of Miss., '91-3.  
Introd. to phonetics. 4, 6, O.—N.  
Middle Low Franconian. 4, 12,  
O.—D.  
History of the German Language.  
4, 12, O.—D.  
Mid. High Germ. (adv.). 4, 12,  
A.—Ju.  
Old High Germ. (adv.). 4, 12, Ja.—  
Mr.

- Old Norse. 4, 12, Ja.—Mr.  
Old Saxon. 4, 12, Ja.—Mr.  
Comparative Gothic Grammar. 4, 12,  
A.—Ju.

## COLUMBIA.

*Lib. contains Goethe coll., 733 vols.*

- H. H. BOYESEN,  
Ph.D.; Prof. Germanic Langs. and Lits.  
\*Goethe's Faust, with commentary.  
2, 30.  
\*Hist. German lit. 2, 30.  
\*Hist. Dan. and Norweg. lit. 1,  
F.—My.  
Seminar: Special periods in German  
lit. 1, 30.  
Old Norse. 2, F.—My.

## W. H. CARPENTER,

- Ph.D.: Adj. Prof. Germanic Lang. and Lit.  
\*Hist. German lang. 2, 30.  
\*Icelandic (el.). 2, 30.  
\*Gothic. 2, 30.  
\*Middle High German. 2, 30.  
\*Old High German. 2, 30.  
\*Germanic mythol. 1, 14, F.—My.

## E. H. BABBITT,

- A. B.  
\*Historical Prose. 2, 30.

## CORNELL.

[See Appendix.]

## HARVARD.

*Mod. Lit. prise; see 4.*

## KUNO FRANCKE,

- Ph.D., München, 1878; Asst. Prof. of  
German Lit. — Kiel, Jena, Berlin, Mün-  
chen, '73-9; Lehrer, Gymnasium, Kiel,  
'80-2; Mitarbeiter d. Monumenta Ger-  
maniae Historica at Berlin; Mediæval  
Lit.; Mediæval German Hist.; German Lit.;  
various contrib. to *Vierteljahrsschrift für  
Literaturgeschichte* and Am. Philolog.  
journals. (Absent for 1894-5.)

[German Literature and Art from the  
14th to the beginning of the 16th  
cents.] 3, 16.

[The Social and Political Tendencies  
in German Literature from the mid-  
dle of the 18th to the middle of  
the 19th cents.] 3, 16.

## Harvard—Continued.

- [The History of the Faust legend, with special reference to kindred mediæval legends.] 1, 16.  
[Seminary: Modern Section.]

## C. G. VON JAGEMANN,

Ph.D., Johns Hopkins, 1884; Asst. Prof. of German.—Leipzig, Johns Hopkins; Prof. Germanic Lang. and Lit., Indiana Univ., '86-9; V. Pres. Mod. Lang. Assoc. of Amer., '92; Assoc. Ed. *Mod. Lang. Notes*.—Old French Syntax; Anglo-Norman dialect; German Syntax.

- \*German Lit. in 12th and 13th cents. 3, 31.

Gothic: Introd. to Germanic philology. 3, 16, O.-Ja.

Old Saxon: Introduction to the study of Germanic Philology, continued. 3, 16, F.-Ju.

Old High German (sem.).

History of the German Language since A. D. 1100; Middle High German; Modern German. 3, 16, F.-Ju.

## H. K. SCHILLING,

Ph.D., Leipzig, 1885; Asst. Prof. of German.—Leipzig, '78-80; '83-85; Prof. Mod. Lang., Wittenberg Coll.—King Alfred's Orosius, Finn Saga, Finnsburg-Fragment in *Béowulf*.

- \*Gen. hist. German lit, esp. the classic periods of the 12th and 18th cents. 3, 31.

Middle High German (sem.).

[Germanic Antiquities.] 1, 31.

## G. L. KITTREDGE [see 4].

[Germanic Mythology.] 3, 16.

[Icelandic (old Norse).] 3, 31.

## MAX POLL,

Ph.D., Univ. Strasburg; Instr. in German.—Teacher of German, Norwich Free Acad., '89-90.—German Literature.

- \*German Literature from the Reformation to the Classic Period. 3, O.-Ja.

## JOHNS HOPKINS.

*Germanic Society meets fortnightly to read and discuss papers.*

## HENRY WOOD,

Ph.D., Leipzig, 1879; Prof. German.

Seminary: Minne-Song; Hist. of

Germ. Lit., 1648-1763. 3, 30.

Gothic. 2, 30.

Old Norse. 2, 30.

Hist. Gram. Compar. Phonology of Germ. dialects. 1, 30.

## M. D. LEARNED,

Ph.D., Johns Hopkins, 1887; Assoc. Prof. of German.

Old Saxon. 2, 15, O.-Ja.

Old High German. 2, 15, F.-My

Middle High German. 1, 30.

## B. J. VOS,

Ph.D., Johns Hopkins, 1892; Assoc. in German.

Modern Dutch. 2, 30.

Historical German. 2, 30.

Scientific German. 2, 30.

The last two courses are merely for reading practice.

There is also a course in German conversation.

## LELAND STANFORD, JR.

## JULIUS GOEBEL,

Ph.D., Tübingen, 1882; Prof. of German Lit. and Philology.—Instructor, Johns Hopkins, 1885-88; Editor *Ballettristisches Journal*, 1888-92.

- \*Hist. German Lit. 2, 32.

- \*Goethe and Schiller. 2, 32.

Middle High. 2, 32.

Old Norse. 2, 32.

Gothic. 2, 18.

Seminary. 2, 32.

## MICHIGAN.

*Goethe Library of 862 volumes.*

## CALVIN THOMAS,

A.M., 1877; Prof. Germanic Lang. and Lit.—Leipzig, '77-8; Michigan, Instr. in German, '78-81; Asst. Prof. German and Sanskrit, '82-7.—German Lit., esp. Goethe.—Ed. Goethe's Faust, Tasso, etc.

- \*Goethe's Faust. 3, 34.

- \*Teachers' Course. 3, 34.

- \*Hist. of Germ. literature to 1850.

3, 34.

Seminary: Original research. 2, 34.

## GEORGE A. HENCH,

Ph.D., Johns Hopkins, 1889; Asst. Prof. Germ. — Johns Hopkins, '35-9; Berlin, summers, 1887, 1890; Heidelberg, '89-90. — The Mansee Fragments; Der althochdeutsche Isidor.

Old High German. 3, 17, F.-Ju.  
Historical and Comparative German Grammar. 2, 34.

## ERNST H. MENSEL,

A.M.; Instr. in German.

\*Middle High German. 2, 17, O.-F.  
\*The Niebelungenlied. 2, 17, F.-Ju.

## MAX WINKLER,

Ph.D., Univ. of Mich., '92; Instructor in German. — Berlin, '92-93.

\*History of German Romanticism. 2, 34.

## MINNESOTA.

## JOHN G. MOORE,

Cornell, '73; Instr. in German, Trumansberg Academy, two years; Prof. of German at the U. of M. since 1875.

Mittel-Hoch Deutsch Grammatik.  
Alt-Hoch Deutsch Grammatik.  
German Lyric Poetry, from Goethe to Luther, and outlines of history of German literature since the Reformation.  
Individual guidance. Weekly meetings.

## PENNSYLVANIA.

## \*OSWALD SEIDENSTICKER,

Ph.D., Göttingen, 1846; Prof. Germanic Lang. and Lit. — Göttingen, '43-46. — Relation of English to German Lit.; History of Germans in America; Philological subjects.

Gothic Gram. and readings. 2, 30.  
Middle High G. 2, 30.  
History German Lit. 2, 30.

\*Deceased. Courses in Germanic Lang. and Lit. will be announced on the appointment of successor.

## PRINCETON.

## T. W. HUNT [see 4].

Gothic. 2, 16, F.-My.

## W. G. HOWARD,

A.M., Harvard; Instructor in German.

\*Mid. High German. 2, 32.  
Old High German. 2, 16, O.-Ja.  
Old Norse. 2, 16, F.-My.

## VANDERBILT.

## A. R. HOHLFIELD,

A.M., Ph.D., Leipsic.

\*Goethe's Faust and Lessing. 2, 32.  
\*Advanced Composition and Literature. 1, 32.  
Gothic. 2, 16.  
O. H. G. gram. and literature. 2, 16.  
Critical Study of Schiller. 3, 32?

## WESTERN RESERVE.

*Scherer Library, 12,000 vols.*

## R. W. DEERING,

Ph.D., Leipzig, 1889; Prof. Germanic Langs. and Lit. — Instructor in German, Vanderbilt, '85-6; Leipzig, '86-9; Adjunct Prof. Germanic Langs., Vanderbilt, '89-92; Prof. Germanic Langs. and Lit., College for Women, W. R. U., '92. — Anglo-Saxon Poetry; German Literature.

Gothic. 3, S.-Ja.  
Old Norse. Seminary. 3, F.-Ju.  
History of Prose Fiction. 3, S.-Ju.  
\*Mid. High German. 3, S.-Ju.

## CHARLES HARRIS,

Ph.D., Leipzig, 1883; Prof. of German. — Vincennes Academy, 1883-6; Prof. of French and German, Southern Illinois State Normal School, 1886-8; Prof. of German, Oberlin Coll., '88-93. — German Grammar and Prose Composition.

Comparative Germanic Philology. 3, S.-Ja.  
Modern German Grammar. 3, F.-Ju.  
The German Drama. 3, S.-Ju.  
The Romantic School. 3, S.-Ja.  
\*Modern Poetry. 3, F.-Ju.

## W. H. HOLME,

Ph.D., Freiburg; i B., 1894; Instructor in German. — Instructor in Greek, Vanderbilt, '89-90; Leipzig, '90-91; Jena, '91-92; Freiburg, '92-94.

Courses in Anglo-Saxon, Old Saxon, and German Literature to be arranged.

## WISCONSIN.

## W. H. ROSENSTENGEL,

A.M., Williams College; Professor of German Language and Literature.

Goethe's Faust. 3, 12, Ja.-A.

History of German Literature (from 12th to 18th cents., inclus.). 3, 10, A.-Ju.

Teachers' course in grammar, composition, and methods of teaching German. 3, 10, Ap.-Ju.

Stilistik. 3, 14, S.-Ja.

## FREDERICK H. WILKENS,

Ph.D., Leipzig; Assistant Professor of German Philology.

Middle High German. 3, 15, S.-Ja.

Old High German. 3, 12, Ja.-A.

Gothic. 3, 10, A.-Ju.

Hist. German Art. 1, 10, A.-Ja.

Phil. Seminary. 3, 36.

## JULIUS E. OLSON,

B.L.; Professor of the Scandinavian Languages and Literatures.

Modern Norse (Kielland, Ibsen, Lie, Tegner). 5, 36.

History of Scandinavian literature.

3, 36.

Old Norse or Icelandic. 2, 36.

## YALE.

*Mod. Lang. Club meets monthly for discussion of original papers.*

## A. H. PALMER,

A.M., W. Reserve, 1891; Prof. Ger. Lang. and Lit., W. Reserve.—Henrik Ibsen's Brand.

Gothic, Old High Ger. and Old Saxon. 2, 32. [om. '95-'96.]

Old Norse (Icelandic). 2, 32. [om. '94-'95.]

Philosophical German. 2, 32.

[in conn. with *Philosophical System*. See 8.]

Wundt's *System der Philosophie*.

\*Scientific German. 2, 32.

\*Schiller: Works and Life. 2, 32.

\*Goethe: Works and Life. 3, 32.

\*Hist. of Ger. Lit., 1648-1832. 2, 32.

## GUSTAV GRUENER,

A.B., Yale, 1884; Asst. Prof. German.—Lessing's Nathan d. Weise.

Middle High German. 2, 32.

\*Hist. and Crit. Prose. 2, 32.

## 6. ROMANCE LANGUAGES AND LITERATURES.

## BROWN.

*Special Collection of Romance Literature in Seminary Rooms.*

## COURTNEY LANGDON,

Hon. A.B., Brown, '91; Assoc. Prof. Romance Langs. and Lits.—Instr. Mod. Langs., Lehigh, '82; Instr. Romance Langs., Cornell, '86-'90; Asst. Prof. Mod. Langs., Brown, '90-'92.—Dante, Petrarch, Boccaccio.

Class. and Rom. Authors. 3, 34.

Hist. Lit. of Rom. Nations. 2, 34.

Provençal. 1, 34.

## ALBERT B. JOHNSON,

A.M., Brown, 1892; Instr. Romance Languages.

French Lit., 16th cent. 1, 34.

Old French. 2, 10. Ap.-Ju.

## BRYN MAWR.

*1 fellowship of \$525.*

## J. A. FONTAINE,

Ph.D., Johns Hopkins, 1886; Assoc. Prof. Romance Lang.—Johns Hopkins, '82-'86; Paris, Bonn, '86-'87; Instr. Romance Langs. and Latin, University Nebraska, '87-'9; Prof. Mod. Lang., Univ. Mississippi, '89-'91.—Origin and development of auxiliary verbs in Romance Langs.

Critical reading Old French Texts. 2, 30.

French philology (morphol. and phonetics). 1, 30.

[French drama. 1, 30.]

[Old French phonetics. 2, 30.]

[Old French Lit. and comp. syntax. 1, 30.]

Comp. study of old and modern French syntax.  
Comp. Romance philol. 1, 30.  
Comp. survey of French, Ital., and Spanish lit. 1, 30.  
Dramatic French lit. to 16th cent. 1, 30.

# CALIFORNIA.

F. V. PAGET,  
Bachelier ès Lettres; Bachelier ès Sciences,  
University of France; Prof. French and Spanish Lang.  
Comparative Syntax and Study of Old Texts.  
Morphology.  
Dante's *La Divina Commedia*.  
Don Quijoté.  
French Lit. of 17th cent.  
S. D. HUNTINGTON,  
A.B., Wisconsin; Inst. French and Italian.  
Victor Hugo's Poetry.

# CHICAGO.

W. I. KNAPP,  
Ph.D., Univ. City of N. Y., 1867; Head Prof. Romance Langs. and Lits. — Paris and Spain, '37-8, '67-78, '92; Prof. Anc. and Mod. Langs., Vassar Coll., '65-7; Street Prof. Mod. Langs., Yale, '79-92. — French and Spanish Grammars and Readers; Translations into Spanish; Spanish authors; Mod. Span. hist., customs, and literature.  
[In Europe, on leave of absence.]

EUGENE BERGERON,  
A.B., Paris, 1869; Asst. Prof. French. — Instr. French, Yale, '88-92.  
\*French lit., 19th cent. 4, 12, O.-D., and repeated Ja.-Mr., A.-Ju.

GEO. C. HOWLAND,  
A.M., Amherst, 1865. — Instr. in Chicago High School, '86-91; Florence, Paris, Madrid, '91-94; Instr. in Romance Languages and Literatures.  
Poema del Cid. 4, 12, O.-D.  
Spanish Classics. 4, 24, Ja.-Ju.  
Italian Classics, prose. 4, 12, O.-D.  
Dante. 4, 12, Ja.-Mr.  
Italian Drama. 4, 12, A.-Ju.

RENÉ DE POYEN-BELLISLE,  
Asst. in Romance Philology.  
Courses in Old French, to be announced later.

ELIZABETH WALLACE,  
B.S., Wellesley, 1886; Docent in Spanish. — Minnesota, '89-92; Chicago, '92-93; Reader in Spanish and Spanish-American Institutions.

Gen. Survey Span. Lit. 4, 24, O.-Mr.

# COLUMBIA.

*Provision will be made for the study of Portuguese and Rumanian. Lib. contains Dante coll. of 281 vols.*

ADOLPHE COHN,  
LL.B., A.M.; Prof. Romance Langs. and Lits.  
\*French lit. in 17th cent. 3, 30.  
\*French lit. in 18th cent. 3, 30.  
\*Victor Hugo and the romantic movement. 1, 30.  
\*Literary crit. in France, esp. St. Beuve. 1, 30.  
Hist. Spanish Lit. 1, 30.  
\*Methods of teaching Fr. 2, 30.  
French Rhetoric. 3, 30 (with Mr. Loiseaux).  
Seminar: Special Topics. 1, 30.

CARLO L. SPERANZA,  
LL.B., Univ. di Padova (Italy), 1867; Instr. in Italian and Spanish. — Instr. in Italian, Yale, '79-83; Instr. Ital., Columbia, '83-6; in French, Univ. City, N. Y., '88-90; in Italian, Barnard Coll., '90-92. — Various criticisms on Ital. Lit., esp. Dante.  
Italian (el.). 3, 30.  
The "Divina Commedia" in Italian. 2, 30 (for two years).  
\*Ital. comp. lit. 16th cent. 3, 30.  
\*Ital. comp. lit. 14th cent. 3, 30.  
Spanish.  
Syntax; Don Quijoté. 3, 30.  
Hist. Italian lit. 1, 30.

H. A. TODD,  
Ph.D.  
Old Provençal. 2, consecutive, 30.  
\*El. Spanish. 3, 30 (with Mr. Loiseaux).

**Columbia—Continued.**

- Intro. to Romance Philol. 2, 30.  
Formative Elements of Romance  
Speech. 2, 30.  
Seminar: La Chanson de Roland. 1,  
30.  
Old French Dialects, esp. Anglo-  
Norman. 1, 30.

BRANDER MATTHEWS [see 4],

- Fr. Dramatists of 19th cent. 2, 30.

B. D. WOODWARD,

Ph.D.; Tutor in Romance Langs.

- \*Intro. to Fr. Lit. 3, 30.  
Old French. 2, O.-Ja.  
French chronicles of middle ages:  
Villehardouin; Joinville; Froissart,  
etc. 2, 30.

MR. LOISEAUX,

- \*Writers of the 16th cent., esp. Mon-  
tagne. 1, 30.  
\*El. French. 3, 30 (with Dr. Wood-  
ward).  
\*Fr. conversation (el.). 1, 30.  
Fr. conversation (adv.). 1, 30.

MR. ———

- Spanish Comp. Lit. of Golden Age.  
3, 30.  
Origins of Spanish Poetry. 2, 30.

**CORNELL.**

[See Appendix.]

**HARVARD.**

*The instructors offer to direct competent Gradu-  
ate students in research. The library con-  
tains 1372 vols. on Dante. Dante prize of  
\$100. Spanish prize of \$45. Modern Lit.  
prize of \$250; see 4.*

Mod. Lang. Conference.  
Cercle Français.

In addition to the courses below,  
opportunities will be afforded to  
competent students for the investi-  
gation of special subjects in Ro-  
mance Philology under the guid-  
ance of the instructors.

FERDINAND BÔCHER,

A.M.; Prof. Modern Langs. — French Lit.;  
Annotated several French books.

- \*French Literature in the 16th cent.  
3, 31.

- \*[French Literature in the 17th cent.]  
3, 31.

[French Literature in the 14th and  
15th cents.] 3, 31.

[French Literature in the 13th cent.]  
3, 31.

The last two courses are purely liter-  
ary; they alternate.

The Comedies of Molière and those  
of his immediate predecessors, his  
contemporaries, and his immediate  
successors. (Research.) 2, 31.  
[The Essays of Montaigne and their  
influence on later thought.] 2, 31.

CHARLES ELIOT NORTON [see under 14].

Literature and the Fine Arts in Italy  
during the Middle Ages and the  
Renaissance, with special study of  
Dante. 2, 31.

This is essentially a course in Poetry.

E. S. SHELDON,

A.B.; Prof. Romance Philology.—Ed.  
*Dialect Notes*.—German gram.; dialects;  
English names of letters of Alphabet.

Literature of the 13th and 14th cents.

Selections from Boccaccio, Pe-  
trarca, Dante. Early Italian.  
Monaci's *Crestomazia italiana dei*  
*primi secoli*. 3, 31.

Old French; Phonology and In-  
flexions. 3, 31.

Old French Dialects, with special  
reference to Anglo-Norman. 2, 31.

[Phonetics, with special reference to  
the explanation of sound-changes  
in the Romance languages.] 2, 31.

[Low Latin.] 2, 16.

[The French Element in English.]  
3, 16.

[Early Spanish; The Poem of the  
Cid; Spanish Literature up to the  
15th cent.] 3, 31.

F. C. DE SUMICHRAST,

Asst. Prof. French.—Ed. various French  
works for English readers.

- \*Gen. view Fr. lit. 3, 31.

- \*French Literature in the 18th cent.  
3, 31.

- \*[French Literature in the 19th cent.]  
3, 31.
- A. R. MARSH [see 7].  
\*Literature of the 15th and 16th cents.  
Torquato Tasso; Ariosto; Machiavelli; Pulci. Reading at sight, etc. 3, 31.
- P. B. MARCOU,  
Ph. D.; Tutor in French.  
\*Literature of the 16th and 17th cents.  
Cervantes; Lope de Vega; Calderon. Composition. 3, 31.  
Provençal. Language and Literature, with selections from the poetry of the Troubadours. 2, 31.
- JOHNS HOPKINS.**
- A. M. ELLIOTT,  
Ph.D., Princeton, 1877; LL.D., Lake Forest Coll., '91; Prof. Romance Langs.  
Seminary: Marie de France; manuscripts. 2, 30.  
Seminary: Poema del Cid; Spanish philology. 2, 30.  
French dialects. 1, 30.  
Romance Club. 1, 30.  
Popular Latin. 1, 30.
- L. E. MENDER.  
Ph.D., Johns Hopkins, 1893; Assoc. in Rom. Lang.  
Origins of Ital. lit. 1, 30.  
Ital. philology. 2, 30.  
Old French philology. 2, 30.  
Old French readings. 2, 30.
- MR. DE HAAN.  
Lectures on Modern Spanish Lit. 1, 30.
- DR. RAMBEAU.  
French phonetics and methodology. 1, 30.
- LELAND STANFORD, JR.**  
JOHN E. MATZKE,  
Ph.D., Johns Hopkins, 1888; Prof. of Romance Lang.—Prof. of French, Bowdoin, 1889-90; Prof. Romance Lang., Indiana Univ., 1890-91; Associate in Romance Lang., Johns Hopkins Univ., '91-93; Editor Hugo's *Hernani*; *Dialektische Eigentümlichkeiten* in der Entwicklung des Mouillierten L im Altfranzösischen; on the source of the Italian and English idioms "to take time by the forelock."  
\*Literary France, 1801-1848. 2, 14.  
\*Literary Criticism. 2, 18.  
Old French Texts. 2, 32.  
Historical Grammar. 2, 32.  
Pro-Seminary. 1, 32.  
Physiological Phonetics. 1, 14.  
Old Spanish. 1, 18.
- W. S. SYMINGTON, JR.,  
A.B., Johns Hopkins Univ., 1891; Asst. Prof. Romance Lang.—Assistant in French, Johns Hopkins, 1892-94.  
Hist. of French Lit. 1, 32.
- MICHIGAN.**
- EDWARD L. WALTER,  
Ph.D., Leipzig, 1877; Prof. Romance Langs. and Lits.—Leipzig, '74-7.  
\*French lit. of 16th cent. 2, 17, O.-F.  
\*French philosoph. writers. 1, 17, O.-F.  
\*Old French. 2, 34.  
\*Teachers' course in French. 2, 17, F.-Ju.  
\*Voltaire; Montesquieu; Rousseau. 3, 17, F.-Ju.  
\*Satirical spirit in French lit. 2, 17, F.-Ju.  
\*Dante; Div. Comm. and Vita Nuova. 2, 34.  
\*Dramas of Lope and Calderon. 2, 34.
- PAUL R. DE PONT,  
A.B., B.S.; Asst. Prof. French.  
\*French dramatists of 18th cent. 3, 17, -O.-F.  
\*Romantic movement in French lit. 2, 17, F.-Ju.
- MORITZ LEVI,  
A.B.; Instr. in French.  
\*French literature of 17th cent. 2, 17, F.-Ju.
- MINNESOTA.**
- CHARLES W. BENTON,  
A.B., Yale, '74; 3 years of grad. study at Yale; Prof. of French at the U. of M., since 1880.



## Minnesota — Continued.

Old French. 1, 36.

A systematic study of (1) the Philosophy of the 19th cent.; (2) the literature of the 18th cent.

## PENNSYLVANIA.

H. A. RENNERT,

Ph.D., Freiburg, '92; Prof. Romance Langs. — U. of Penna.; Göttingen; Freiburg; Ecole des Hautes-Etudes; Instr. German, French, Italian, Univ. of Penna. — Spanish and Italian Lits.

Interpretation of Old French Texts. 2, 30.

Rapid Reading, Old French. The Romance of Octavian. 1, 30.

Interpretation of Old Provençal Texts. 1, 30.

The Italian Poets before Dante. 1, 30.

\*Dante: Selections from Purgatorio. 2, 30.

\*Spanish Drama: Lope de Vega's "*Sin Secreto no Ay Amor*." 1, 30.

## PRINCETON.

G. MCL. HARPER,

Ph.D., 1892; Prof. Romance Langs. — Göttingen, '85; Berlin, '85-6; Paris, '89; Princeton, '89-92; Instr. Fr., Princeton, '89-90. — Legend of the Holy Grail; Ed. "Contes de Balzac."

Mediæval French lit. 2, 32.

French lit. of Renaissance. 2, 16, O.-Ja.

\*French lit. of 19th cent. 2, 16, F.-My.

Dante and his age. 2, 32.

\*The Inferno. 2, 16, F.-My.

\*The Purgatorio and Parad. 2, 32.

E. S. LEWIS,

Ph.D., Johns Hopkins, 1892; Instr. in Romance Langs. — Guernsey dialect; Old French; physiological phonetics.

\*El. Modern Spanish. 2, 32.

\*Old French readings. 2, 32.

Old French philology. 2, 32.

General physiological phonetics. 2, 16, O.-Ja.

French dialects. 2, 16, F.-My.

## VANDERBILT.

CHARLES A. EGGERT,

A.M., Ph.D., Heidelberg; Adjunct Professor of Romance Languages.

\*Victor Hugo; St. Beuve; Balzac. 2, 32.

\*Advanced Composition and Literature. 1, 32.

Historical Grammar and Old French Texts. 2, 32.

Lectures on Provençal Language and Literature. 2, 32.

French Seminary: Study of French Comedy. 2, 32.

Lectures on the History of the Drama. 1, 32.?

## WESTERN RESERVE.

F. M. WARREN,

Ph.D., Johns Hopkins, 1887; Prof. of Romance Languages. — Instructor in Mod. Langs. in Western Reserve College and Adelbert College, 1881-3; Instructor and Associate in Mod. Langs., Johns Hopkins, 1886-91; Prof. of Romance Langs., Adelbert Coll., '91. — Hist. Romance Lit.

\*Romantic School in France. 3, S.-Ju.

\*Italian. 3, S.-Ju.

\*Spanish. 3, S.-Ju.

M. N. COLVIN,

Ph.D., Zürich, 1888; Prof. Romance Langs. — Paris, '74-75; Instructor in French and Latin, Worcester High School, '77-80; Principal Genesee State Normal School, '81-83; Zürich and Geneva, '84-87; Sorbonne, L'Ecole des Hautes Etudes, L'Ecole de Chartes, College de France, '88-89; Secy. Bryn Mawr Preparatory School, Baltimore, '89-93; Italy and Spain, '93-94. — Romance Philology.

Introduction to French Phonology. 1, S.-Ja.

Old French Texts. 3, F.-Ju.

\*Provençal. 3, F.-Ju.

\*Old Spanish. 3, F.-Ju.

\*Old Italian. 3, F.-Ju.

## YALE.

Mod. Lang. Club meets monthly for discussion of original papers.

## JULES LUQUIENS,

B.D., Univ. Louisiana, 1866; Ph.D., Yale, 1873; Prof. Mod. Lang.—Prof. Mod. Lang., Mass. Inst. Tech.—The Avesta; French reader of pop. sci.; French gramm.

\*French Lit. of the 19th cent. 3, 32.  
[omitted in 1894-95.]

\*French Lit. of the 17th cent. 3, 32.  
[omitted 1895-96.]

Early Fr. Lit. and Hist. Gramm. 2, 32. [omitted 1894-95.]

Revival of Fr. Lit. in 16th cent. 2, 32. [omitted 1895-96.]

French Lit. of the 18th cent. 2, 32.  
[omitted 1894-95.]

French Critics and Criticism in the 19th cent. 1, 32.

## H. R. LANG,

Ph.D.; Asst. Prof. Romance Lang.—Spanish gram., proverbs; Portuguese lang and lit.

Provençal Lang. and Lit. 1, 32.

\*Spanish (cl.). 3, 32.

\*Spanish Lit. of 16th and 17th cents. 1, 32. [2 yrs. course.]

\*Italian (cl.). 3, 32.

\*Mod. Ital. Essayists. 1, 32.

\*Dante's Life and Works. 1, 32.  
[2 yrs.]

## A. G. CAMERON,

Ph.D., Princeton, 1891; Asst. Prof. of French.—Princeton, 1886-7, 1889-91; Prof. French and German, Miami Univ., '88-91.—Contes de Daudet, with notes.

Molière, life and works. 1, 32.

## 7. COMPARATIVE LANGUAGE AND LITERATURE.

[Including Languages not otherwise classified. See also divisions I., 1-6.]

## BRYN MAWR.

E. W. HOPKINS [see 2].

Comp. philol. and philol. sem. 1, 30.

HERMANN COLLITZ [see 5].

Offers courses in Celtic and Slavonic languages.

## CHICAGO.

CARL D. BUCK [see 2].

General Intro. to study of Indo-European Philology. 4, 6, O.-N, and 4, 6, Ju.-Jul.

Outlines of Com. Grammar of Greek and Latin. 4, 6, N.-D.

Exercises in Greek and Latin Comp. Grammars. 4, 6, F.-Mr.

Seminary. 2.-4, 12, O.-D.

Comparative Grammar of Greek and Latin Languages. 4, 6, Au.-S.

## COLUMBIA.

A. V. W. JACKSON [see 2 and 4].

\*Intro. to study of language. 2, 30.

## G. E. WOODBERRY,

A.B., Harvard, 1877; Prof. of Literature.

\*Hist. and theory of criticism: Plato, Aristotle, Horace, Quintilian, Sidney, etc. 2, 30.

The practice of criticism: review of greater lit. works. Conferences and diss.

BRANDER MATTHEWS [see 4].

\*Epochs of the drama: Greek, Latin, Spanish, English, French, German. 2, 30.

\*The hist. of modern fiction. 1, 30.

## CORNELL.

[See Appendix.]

## HARVARD.

A. R. MARSH,

A.B.; Asst. Prof. Comp. Lit.

\*The History of Latin Literature in the Middle Ages (beginning with the Fourth Century), and its relations to Classic and Modern Literature. Lectures and theses. 2, 31.

## Harvard — Continued.

- \*Medieval Literature in the vulgar tongues, with especial reference to the influence of France and Provence. Lectures and theses. 3, 31.  
 [The Origin and Development of Historical Epic Poetry in Mediæval Europe.] 3, 16.  
 [The Legendary and Poetic Material of Celtic Origin and its Treatment in the Narrative Poetry of the Middle Ages.] 3, 16.

J. B. GREENOUGH AND C. R. LANMAN  
 [see 2 and 3].

[Greek and Latin comp. phil. 3, 31.]

## JOHNS HOPKINS.

MAURICE BLOMFIELD [see 2].

- \*El. of linguistic science; Ethnology of Indo-Europ. peoples. 1, 30.  
 Comp. gram. of Greek, Latin, German, Sanskrit; hist. of noun-formation. 1, 30.

## PENNSYLVANIA.

M. W. EASTON,

Ph.D., Yale; Prof. Eng. Lang. and Compar. Philol.

Linguistics and comparative Philology. 2, 30.

D. G. BRINTON,

A.M., Yale, M.D., Sc.D.; Prof. American Archaeology and Linguistics. — Yale; Paris; Heidelberg; Prof. Ethnology, Acad. Nat. Sci., Phila. — Archaeology; American and general Anthropology; Comp. Religion; American Linguistics.

## Linguistics:

General Structure of American Languages.

Traits of Principal Linguistic Stocks of North and South America.

Studies in the Grammatical Structure of Algonkian, Uto-Aztecan, Maya, and Kechua Stocks.

Elementary Reading in the Nahuatl Tongue.

## PRINCETON.

C. MARTIN [see 1].

Siamese. 2, 32.

PROF. PERRY,

\*Poetics. 2, 16, O.-Ja.

\*Prose. Fiction. 2, 16, F.-My.

ALEX. W. HERDLER,

Instructor in Mod. Langs. — Gymnasium and Teachers' College, Prague, '83; Universities, Prag., Vienna, '83-85; Paris, '85-86; Editor of Spanish Dramas and Scientific French Reader.

\*Russian grammar. 2, 20, S.-Ja.

\*Russian prose writers of 19th cent. 1, 30, D.-Ju.

Comparative grammar of Russian, Polish, and Bohemian. 1, 20, Mr.-Ju.

\*Russian lit. 1, 30.

Polish and Bohemian novelists are read. 2, 15, A.-Ju.

## WESTERN RESERVE.

CHARLES HARRIS [see 5].

Comparative Germanic Philology. 3, S.-Ja.

L. A. POTWIN [see 4].

Sources of English Literature. 3, S.-Ja.

## YALE.

A. S. COOK [see 4].

Theories of Poetry. 2, 20, Ja.-Ju.

HANNS OERTEL [see also 3],

Ph.D., Yale, 1890; Instr. Ger. and Comp. Phil. — Yale, '87-90. — Sanskrit notes; folk lore.

Linguistics (no knowl. of Sanskrit req.). 2, 32.

Investigation in Comp. Philol. 1, 32.

Introduction to Comp. Syntax. 2, 32.  
 [omitted 1894-95.]

A. VAN NAME,

A.B., Yale, 1858; Librarian. — Creole Gram.; Hist. Japan, Arabic, and Chinese Lang.

Japanese. 1 (or 2), 32.

## II. PHILOSOPHY, HISTORY, AND THE FINE ARTS.

### 8. PHILOSOPHY AND ETHICS.

#### BROWN.

##### E. BENJAMIN ANDREWS,

D.D., LL.D.; Pres. of the Univ. and Prof. of Moral and Intellectual Philos.—Pres. of Denison Univ., '75-79; Prof. of Practical Theol., Newton Theol. Inst., '79-82; Berlin and Munich, '82-83; Prof. Hist. and Pol. Econ., Brown, '83-88; Prof. Pol. Econ. and Pub. Finance, Cornell, '88-89.

Practical Ethics. 3, 22, Ja.—Ju.  
Casuistry. 1, 22, Ja.—Ju.  
Christian Rel. 1, 10, A.—Ju.

##### JAMES SETH,

M.A., Edinburgh, 1881; Prof. of Philosophy and Romeo Elton Prof. of Natural Theology.—Baxter Scholar, Univ. of Edinburgh; Ferguson Scholar in Philos.; George Munro Prof. of Philos., Dalhousie Col. and Univ., Halifax, '86-92; Assoc. Prof. of Nat. Theol. Brown, '92-94.

Hist. Greek Philos. 3, 12, S.—D.  
Hist. Med. and Mod. Philos. 3, 12, Ja.—Mr.  
Hist. Recent and Contemp. Philos. 3, 10, A.—Ju.  
Theoretical Ethics. 3, 12; 1, 12, S.—Mr.  
Philos. of Relig. 3, 22, Ja.—Ju.  
Seminary. 2, 34.

##### WILLIAM B. FORBUSH.

Ph.D., Columbia; Instr. in Comparative Relig.  
Comparative Relig. 3, 12, Ja.—Mr.

#### BRYN MAWR.

##### D. S. MILLER,

Ph.D., Univ. of Halle, 1893; Assoc. in Philosophy.—Univ. of Pa., '88-9; Clark, '89-90; Harvard, '90-2; Freiburg, '92-3.

[Rec. Phil. Theories. 2, 30.]  
Phil. of Spinoza. 2, 30.

\*Psych. 3, 30.

\*Brit. Phil., 17th and 18th cents.: Hobbes, Locke, Berkeley, and Hume. 2, 30.

#### CALIFORNIA.

##### G. H. HOWISON,

A.M., LL.D., Marietta; Mills Prof. Intell. and Moral Phil. and Civil Polity.

Phil. of Plato.  
Hegel's Logic.  
Phil. of Kant.  
Ethics and Civil Polity.

#### CHICAGO.

##### JOHN DEWEY,

Ph.D., Johns Hopkins, 1884; Head Prof. of Philosophy.—Johns Hopkins, '82-4; Prof. Phil., Minnesota; Prof. Philos., Michigan.—Psychology and Ethics.

Psychological Ethics. 4, 12, Jul.—S.  
Contemp. metaph. thought (sem.). 2, 12, O.—D.  
Logic of Ethics. 4, 12, O.—D.

##### G. S. GOODSPEED [see 1 and also 10].

Religs. China and non-civ. peoples. 4, 12, Jul.—S.  
Indian religions. 4, 12, O.—D.  
Islam. 4, 12, Ja.—Mr.  
Religs. Greece, Rome, Nor. Europe. 4, 12, A.—Ju.

##### J. H. TUFTS,

Ph.D., Freiburg, 1892; Assoc. Prof. Philosophy.—Yale (Theology), '84-9; Freiburg, Berlin, '91-92; Instr. Math., Amherst, '85-7; Instr. Philos., Michigan, '89-91.

Hist. of mod. philosophy. 4, 12, Jul.—S.  
\*Gen. hist. philosophy. 4, 24, O.—Mr.

**Chicago—Continued.**

- Engl. philosophy (sem.). 2, 30,  
O.-My.  
Movements of thought in 19th cent.  
4, 6, A.-My.  
Philosoph. German (with preceding).  
30, O.-My.

**G. H. MEAD,**

A.B., Harvard, 1888; Asst. Professor of philosophy.—Graduate student of philosophy, Leipzig and Berlin, '88-91; instructor in philosophy, Univ. of Mich., '91-93; assistant professor, *ibidem*, '93-4.

- Philosophy of the Concepts of Matter and Motion in the Physical Sciences. 4, 12, A.-Ju.  
Logic. 4, 12, O.-D.  
Kant's Critique of Pure Reason. 4, 24, O.-Mr.  
Philosophy. 4, 12, A.-Ju.

**COLUMBIA.****N. M. BUTLER,**

Ph.D.; Prof. Philosophy, Ethics, and Psychology, and Lect. on Hist. and Instits. of Education.

- \*Gen. hist. of philosophy. 2, 30.  
Philos. of Kant, Fichte, Schelling, Herbart, Schopenhauer. 2, 30.  
Brit. Philos. from Locke to Herbert Spencer. 2, 30.  
Philos. Seminar. 1, 30.

**J. H. HYSLOP,**

Ph.D., Johns Hopkins, 1887; Instr. in Ethics.—Leipzig; Johns Hopkins.—Logic, Ethics (Hume).

- \*Ethics (el.). 2, 30.  
Practical ethics: charity, divorce, labor, etc. 2, 30.  
Systematic Ethics. 2, 30.  
Ethical Seminar. 1, 30.

**CORNELL.**

[See Appendix.]

**HARVARD.**

*Philosophical conference of adv. students and instructors meets monthly. Philosophical club, an organization of students, meets fortnightly to discuss philosophical papers. 2 fellowships of \$500 and \$450, preferably awarded to students of this dept.*

**G. H. PALMER,**

A.M., 1867; Alford Prof. Natural Religion, Moral Philos., and Civil Polity.—Andover Theol. Sem., '65-7, '69-70; Tübingen, '67-9; Harvard: Tutor in Greek, '70-3; Asst. Prof. Philos., '73-83.—The Odyssey of Homer, a translation; Education.

- \*Theory of morals, considered constructively. 3, 31.  
Comp. ethical ideals (sem.). 2, 31.

**C. C. EVERETT,**

D.D.; Bussey Prof. of Theology.—Science of Thought; Ethics for Young people, etc.

- \*The Psychological Basis of Religious Faith. 1, 31.  
\*The Content of Christian Faith. 3, 31.  
\*Comparative Religion. 2, 31.

**W. JAMES [see 9].**

- \*Cosmology. Philos. of nature, evolution, materialism. 3, 31.

**F. G. PEABODY,**

D.D.; Plummer Prof. Christian Morals.—Harvard; Halle.

- \*Ethics of social questions. 3, 31.  
\*The Philosophy of Religion: its rise, problem, and results. 1, 31.

**JOSIAH ROYCE,**

Ph.D., Johns Hopkins, 1878; Prof. of Hist. of Philosophy.—Leipzig, '75-6; Göttingen, '76; Johns Hopkins, '76-8; Instr. in English, U. of Cal., '78-82; Harvard: Instr. in Philos., '82-85; Asst. Prof. Philos., '85-92.—Metaphysics; Philos. of Religion; Hist. Mod. Philos.

- Seminary (Hegel). 2, 31.  
\*Metaphysics. The fundamental problems of Theoretical Philosophy, considered constructively. 3, 31.  
\*Kant and Schopenhauer. Lectures (Professor Royce.) Trans. of select. from above authors (Dr. Bierwirth). 3, 31.

**G. SANTAYANA,**

Ph.D.; Instr. in Philosophy.

- \*Psychol. of taste and Hist. æsthetic theories. 3, 31.  
\*[Descartes; Spinoza; Leibnitz. 3, 16 O.-Ja.]

- \*English Philosophy from Hobbes to Hume. 3, 16, O.-Ja.  
Scholastic philos. (sem.). 2, 31.

JOHNS HOPKINS.

*Coll. of Medieval Philos. and Scholasticisms.*  
300 vols.

E. H. GRIFFIN,

D.D., Amherst, 1880; LL.D., Princeton, 1888; Prof. Hist. of Philosophy.—Union Theolog. Sem., '67; Williams Coll.: Prof. Latin, '72-81; Prof. Rhetoric, '81-86; Prof. Philosophy, '86.

Mod. philos.: Descartes to Kant. 1, 30.

Mod. ethical theories. fort., 30.

LELAND STANFORD, JR.

D. S. JORDAN,

LL.D., Cornell, 1886; Pres. of the University.

- \*Organic Evolution. 2, 32.

W. H. HUDSON [see 4].

- \*Synthetic Philos. 3, 14.  
\*Constructive Ethics. 3, 18.

W. W. THOBURN,

Ph.D., Alleghany College, 1888.

- \*Life and Teachings of Christ. 2, 32.

MICHIGAN.

[Courses given in 1893-4.]

JOHN DEWEY,

Ph.D., Johns Hopkins, 1884; Prof. of Philosophy.—Johns Hopkins, '82-4; Prof. Phil., Minnesota.—Psychology and Ethics.

- \*Movement of thought in 19th cent. 2, 17, O.-F.  
Political philosophy. 4, 17, O.-F.  
Anthropological ethics. 2, 17, F.-Ju.  
Seminary in ethics. 3, 34.  
Æsthetics. 2, 17, O.-F.

GEORGE H. MEAD,

A.B.; Asst. Prof. of Philosophy.

- \*History of philosophy. 4, 34.

ALFRED H. LLOYD,

Ph.D., Harvard, 1893; Instr. in Philosophy.

- \*Contemp. philos.: Lotze; Caird. 3, 17, O.-F.

\*Spinoza. 3, 17, F.-Ju.

\*Hist. of British ethics: Hobbes to Mill. 2, 17, O.-F.

\*Philos. of Religion. 2, 17, F.-Ju.

MINNESOTA.

W. S. HOUGH,

Univ. of Mich., Ph.M., '84.—Instr. in Philos. Univ. of Mich., '88-89; Asst. Prof. of Phil., U. of Minn., '89-92; Prof. of Philos. since 1892.

The Philosophy of Kant. Special courses of collateral reading by each individual. 2, 1st term.

Advanced Logic. Study of principles. Systematic individual investigation with reports. 2, 2d term.

The Philosophy of Kant. Continuation of 1st course with study of the Critique of Judgment. 2, 2d term.

Ultimate Psychological Problems. Each student will make special study of one problem. Theses, 2, 3d term.

PENNSYLVANIA.

G. S. FULLERTON,

B.D., Yale; Ph.D., hon., Muhlenberg; Vice-Provost of University and Dean of College; Prof. Intellectual and Moral Philosophy.—Princeton; Yale.—Theory of Knowledge; Hist. of Philos; Philos. of Theism; Identity.

Hist. of Modern Philos. 2, 30.

Metaphysics. 2, 30.

W. R. NEWBOLD,

Ph.D., Univ. of Penn., '91; Lecturer on Philos., U. of Penn., '87-91; Berlin, '91-92.—Characteristics and conditions of Belief; Hypnotism.

Analysis of Ethical Theories. 2, 30.

History of Ethical Theories. 2, 30.

PRINCETON.

[See also 3.]

*Coll. on Aristotle and his philos., 300 vols.*

F. L. PATTON,

D.D., LL.D.; President; Robert Lenox Prof. Bib. Instruct. and Stuart Prof. Ethics and Philos. of Relig.

## Princeton — Continued.

- \*Theism. 2, 32.  
Theoretical ethics. 1, 16, O.-Ja.

## C. W. SHIELDS,

D.D., LL.D.; Prof. Harmony of Science and Revealed Religion.—Princeton.—“*Philosophia Ultima, or Science of the Sciences.*”

- \*Harmony of sci. and relig. 2, 16, F.-My.  
Hist. and logic of sciences. 2, 16, F.-My.  
Seminary.

## A. T. ORMOND,

Ph.D.; Stuart Prof. Mental Sci. and Logic.—Basal Concepts in Philos.

- \*Hist. philos., Descartes to Kant. 2, 16, O.-Ja.  
\*Hist. philos. since Kant. 2, 16, F.-My.  
\*Metaphys. and theory knowl. 2, 16, O.-Ja.  
\*Outlines of philos. 2, 16, F.-My.  
Seminary: Contemporary philos. 2, 32.  
Selected topics in philos. 2, 32.  
\*Induction and theory of logic. 2, 16, F.-My. (with J. G. Hibben).

## J. G. HIBBEN,

Ph.D.; Asst. Prof. of Logic.

- \*Theory of prob., symbolic log. 2, 16, O.-Ja.

## VANDERBILT.

## COLLINS DENNY,

A.M., B.L.; Prof. of Mental and Moral Philos.

- Induction and Theory of Logic. 2, 16.  
Theory of Morals. 1, 16.  
Hist. of Philos. 1, 16.

## WESTERN RESERVE.

## M. M. CURTIS,

Ph.D., Leipzig, '91; Prof. of Philos.—Leipzig, '88-91.—Locke's Ethical Philos.

- British Philos. from Bacon to Hume. 3, S.-Ja.

British Philos. in the 19th cent. 3, F.-Ju.

The Philos. of Herbert Spencer. 3, S.-Ja.

- \*Greek Philos. and its Relation to Rise of Christianity. 3, F.-Ju.

## H. A. AIKINS,

Ph.D., Yale, 1891; Prof. of Philos.—Instr. in Univ. Southern California, '88; Yale, '88-91; Lecturer on Hist. of Philos., Yale, '90-91; Prof. Logic and Philos., Trinity Coll., N. C., '91-93; Honorary Fellow, Clark Univ., '92-93.—Hume.

Kant. 2, S.-Ja, or

Lotze. 2, F.-Ju.

- \*Hist. of Philos. 3, F.-Ju.

## WISCONSIN.

## J. W. STEARNS,

A.M., Harvard, LL.D.; Prof. of Philol. and Pedagogy; ed. *Wis. Journal of Education*.

The philosophy of Lotze. 2, 26, S.-Mr.

The philosophy of modern science. 3, 10, Apr.-Ju.

Philos. Seminary (with Prof. Jastrow and Dr. Sharp).

## F. C. SHARP,

Ph.D., Berlin; Instr. in Philos.

The theory of cognition. 3, 36, S.-Ju.

Readings in German philos. 3, 22, Ja.-Ju.

Ethical Seminary (modern ethical theory). 2, 10, Apr.-Ju.

## J. JASTROW,

Ph.D., Johns Hopkins; Prof. of Psychology.

Advanced Logic. 2, 10, Apr.-Ju.

## YALE.

## GEO. T. LADD,

D.D., W. Reserve, 1881; Prof. Moral Philos. and Metaphysics.—Prof. Mental and Moral Philos., Bowdoin.—Theology; Physiology; Psychology.

Intro. to Philos. 2, 32.

Phil. Anthropol. 2, 32.

Philos. System. 2, 32 (see 5, *Phil. Ger., Prof. Palmer*).  
Theory of knowledge. 2, 32.

GEO. M. DUNCAN.

B.D., Yale, 1884; A.M. Univ., City N. Y.;  
Asst. Prof. Philos.—Yale, '81-5; Jena,  
Leipzig, '85-6; Heidelberg, Berlin, '86-7;  
Paris, '87-8. — Philos. of Leibnitz.

Pop. Discus. in Phil. 1, 32.

\*Hist. of Phil., (Descartes to Kant.)  
2, 32.

E. H. SNEATH,

Ph.D., 1889, Asst. Prof. Phil.—Ed.: Phil.  
of Reid, series of Mod. Philosophers.—Ethical  
series.

Hist. of Phil.; (Wiedelband, *A Hist.  
of Phil.* 1, 32.

Hist. of Phil.: Locke, Berkeley,  
Hume, with ref. to Reid and Kant.  
2, 32.

\*Hist. of Ethics: Hobbes to Spencer  
2, 32.

E. F. BUCHNER,

Ph.D., 1893, Yale; Lecturer on Pedagogy.

Hist. of Philos. 17th cent. 2, 32.

— — —.  
Greek Philos.

— — —.  
Critique of Pure Reason.

*Following courses in Divinity School open to  
Grad. Students of Philos., on obtaining  
permission from the Instructor.*

SAMUEL HARRIS,

D.D., Williams, 1855; LL.D., Bowdoin,  
'71; Dwight Prof. Systematic Theol.—  
Pastor, '41-55; Prof. Theol., Theolog.  
Sem., Bangor, '65-7; Pres. Bowdoin Coll.  
and Prof. Philos., '67-71.—Christianity;  
Philos. basis of Theism; Self-Revelation of  
God.

Phil. basis of Theism and Self-Reve-  
lation of God. 2, 32.

Special Studies in Philos. of Relig.  
1, 32.

ARTHUR FAIRBANKS,

Ph.D., Freiburg, 1890; Lecturer on Social  
Ethics and Philos. of Relig.—Ethics, esp.  
Greek.

Comparative Religion. 2, 22, O.—  
Easter.

Comparative Religion. 1, 32.

Philos. of Religion. 1, 32.

### 9. PSYCHOLOGY AND PEDAGOGICS.

BROWN.

E. B. DELABARRE,

Ph.D., Freiburg, 1891; Assoc. Prof. of  
Psychology; A.M., Harvard, '89.

Psychology, Laboratory Course. 3, 10,  
Apr.—Ju.

Psychology (adv.). Original Experi-  
mental Work. 1, 24, S.—Mr.

Seminary. 3, 34.

W. B. JACOBS,

A.M., Brown, 1885; Instr. in Pedagogy.

Pedagogy. 3, 10, Apr.—Ju.

CALIFORNIA.

E. E. BROWN,

Ph.D., Halle; Prof. Science and Art of  
Teaching.

Seminary (Child-life).

History of Education.

Theory of Education.

School Systems.

Special Problems in Education.

CHICAGO.

[See also 20.]

JOHN DEWEY [see 8].

Methods of Psych. Observations  
(sem.). 2, 12, Jul.—S.

C. A. STRONG,

A.B.; Assoc. Prof. Psychology.—Rochester  
Theol. Sem., '85-6; Berlin, '86-7; Paris,  
Berlin, Freiburg, '89-90; Instr. Philos.,  
Cornell, '87-9; Docent, Clark, '90-1.

Recent Psychological Theories. 4,  
12, A.—Ju.

Morbid Psychology. 4, 6, A.—My.  
Psychology in its relations with phil-  
osophy. 4, 6, My.—Ju.



## Chicago—Continued.

J. H. TUFTS [see 8].

Psychology. 4, 12, Jul.-S.

J. R. ANGELL,

Asst. Prof. Exper. Psychology; A. M., Univ. Mich., '91.—Graduate student at Harvard, Berlin, and Halle, '92-3; instructor in Experimental Psychology, Univ. of Minn., '93-4.

Experimental Psychology Training. 4, 36, O.-Ju.

Experimental Psychology Research. 4, 36, O.-Ju.

G. H. MEAD [see 8].

Comparative Psychology. 4, 24, O.-Mr.

Methodology of Psychology. 4, 12, Ja.-Mr.

Psychology. 4, 12, Ja.-Mr.

## CLARK.

2 fellowships of \$600; 2 of \$400; 2 scholarships of \$200; 2 of \$100.

G. STANLEY HALL,

Ph.D., Harvard, 1878; Pres. and Prof. of Psychology.—Lecturer in Harvard and Williams Colleges, 1880-81; Prof. of Psychology, Johns Hopkins University, 1881-88; LL.D., Univ. of Mich., 1888, and Williams College, 1889; Resident Fellow of the Amer. Acad. of Arts and Sciences.

Contemp. Psychology. 3, 32.

Morbid Psychology and Clinic. 2, 32.

Lab. courses in Psycho-Physics.

Research Work with Drs. Sanford and Burnham, occupying about half each student's time.

Seminary. Weekly.

Nature of Childhood and Youth. 1, 32.

Organization and Curricula of School and College. 1, 32.

E. C. SANFORD,

Ph.D., Johns Hopkins, 1888; Asst. Prof. of Psychology.—Instr. in Psychol., Clark, '89-92; Ed. Amer. Jour. Psychol.—Writings of Laura Bridgeman; Personal Equation; Laboratory course in physiological psychol.

Lect. on Recent Psych. and Psychologists. 1, 32.

Practice Course in Psych. Exper. 4-6, 32.

Psych. Seminary. 1, 32.

Research work in connection with Drs. Hall and Burnham.

A. F. CHAMBERLAIN,

Ph.D., Clark, 1892; Anthropological Psychology.

Dr. Chamberlain's courses are inserted under 13.

## COLUMBIA.

12 courses in Teachers' College, New York, are open to graduates.

N. M. BUTLER [see 8].

[Hist. Educational Theory.]

[Syst. Pedagog.; psychol. of childhood. 1, 30.] [Given 1895-96.]

Pedagogical sem. 1, 30.

\*Contemp. psychologists: Wundt, Volkman, Münsterberg, Ribot, James. 1, Mr.-My.

J. MCK. CATTELL,

Ph.D., Leipzig, 1886; Prof. of Exper. Psychology.—Johns Hopkins; Göttingen; Leipzig; Cambridge; Asst., Leipzig, '85-6; Lect., Cambridge, '87; Univ. of Penn., Lect., '87-8; Prof., '88-91.—Exper. Psychol., measurement of mental processes.

\*Exper. Psychol. (el.). 2, 30.

Exper. Psychol. (adv.). 2, 30.

Psychol. Methods. 2, 30.

Research in Exper. Psychol. Daily.

L. FARRAND,

A.M., M.D.

\*Physiolog. Psychol. (el.). 3, 30.

Physiolog. Psychol. (adv.).

Abnormal and Compar. Psychol. 1, 30.

## CORNELL.

[See Appendix.]

## HARVARD.

Psychol. Lab.; specially endowed, is very fully equipped with models and apparatus for investigation. Reference Lib. of several hundred vols. [See also 8.]

WILLIAM JAMES [see also 8],

M.D.; Prof. of Psychol.—Harvard: Instr. Anat. and Phys., '72-6; Asst. Prof. Physiol., '76-80; Asst. Prof. Philos., '80-5; Prof. Philos., '85-90.—Gen. psychol., esp. space and time perception, habit, instinct, hypnotism, mediumistic phenom., belief, ethics.

Mental pathol. (sem.). 2, 31.

HUGO MÜNSTERBERG,

Ph.D., Leipzig, 1885; M.D., Heidelberg, '87; Prof. Experimental Psychology.—

Geneva, '82; Leipzig, '83-5; Heidelberg, '86-7; Freiburg: Instr., '88-91; Asst. Prof., '91-92. — Willenshandlung; Beiträge z. Exper. Psychol., 4 vols.; Aufgaben u. Methoden d. Psychol., etc.

Psychol. demonstr. and exercises, esp. the literature.

Laboratory exerc. and orig. investig. L6-18h., 31.

P. H. HANUS,

B.S.; Asst. Prof. Hist. and Art of Teaching. — Princip. Denver High School, '86-90; Prof. Math., U. of Col., '79-86; Prof. Pedagogy, Col. State Nor. Sch., '90-1. — Applied Psychol.; Hist. of Educ.; Geometry in Gram. Schs.; Mathematics.

\*Hist. educ. theories and practices. 2, 31.

\*Educ. theory. 1, 31.

\*Methods of Teaching Science in EL and Secondary Schools.

Organiz. and managem't public sch. and acad. 2, 31.

Curriculum of second'y sch. (sem.). 1, 31.

LELAND STANFORD, JR.

FRANK ANGELL,

Ph.D., Leipzig, 1891; Prof. of Psychology. — Asst. Prof. Psychology, Cornell Univ., 1891-92.

\*Adv. Psychology. 2, 32.

\*Exper. Psychol. 2, 32.

\*Psychological Optics. 2, 18.

\*Methods of Sensation Measurement. 1, 32.

EARL BARNES,

M.S., Cornell Univ., 1891; Prof. of Education. — Prof. of History, Indiana Univ., 1889-91.

\*Studies on Children. 2, 32.

\*European School Systems. 1, 18.

\*Rousseau and Pestalozzi. 2, 32.

\*Seminary. 2, 32.

M. E. SCHALLFENBERGER.

\*School Organization.

\*Methods of Teaching.

MICHIGAN.

B. A. HINSDALE,

LL.D.; Prof. of Science and Art of Teaching. — Pres. Hiram Coll.; Supt. Public In-

struction, Cleveland. — The scientific, practical, institutional, and administrative as parts of education.

\*History of education. 3, 34.

\*Compar. study of educ. systems. 2, 17, F.-Ju.

\*Seminary in hist. and philos. of educ. 2, 17, F.-Ju.

PENNSYLVANIA.

W. R. NEWBOLD [see 8].

Psychology of conduct. 2, 30.

General Psychology. 3, 30.

L. WITMER,

Ph.D., Leipzig, '92; Lect. on Exper. Psychol., U. of Penn. — Leipzig; Freiburg. — Aesthetics of Proportion; Experimental Psychology.

Systematic Course on Exper. Psychology, extending through two years. 12, 30.

Special Topics for Class Exper. 12, 30.

Seminary for the Study of Child Psychology. 12, 30.

Individual Laboratory work. 2, 30.

M. G. BRUMBAUGH,

Ph.D., U. of Penn., '94; Prof. of Pedagogics. — President of Brethren's College; Harvard; U. of Penn. — Educational Subjects.

Hist. of Education. 2, 30.

Institutes of Education. 2, 30.

Educational Seminary. 1, 30.

PRINCETON.

W. B. SCOTT [see 21].

Physiol.-psychol., lect. and lab. 2, 16.

J. M. BALDWIN.

\*Gen. psychol. 2, 32.

Exper. psychol. L6, 32.

Seminary. 1, 32.

H. C. WARREN.

Demonstrator in Exp. Psychol.

Theory of Mental Measurements. 2, 16, O.-Ja.

**VANDERBILT.**

COLLINS DENNY,

A.M., B.L., Univ. of Va.

\*Elementary Psychology. 3, 16.

Advanced Psychology. 3, 16.

**WESTERN RESERVE.**

WM. H. BURNHAM,

Instr. in Pedagogy; Ph.D., Johns Hopkins, 1888.—Instr. in Psychol., Johns Hopkins, '88-9.—Memory; Education; School Hygiene.

Principles of Education. 1, 16.

Educational Psych. 1, 32.

Secondary Education. 1, 16.

Seminary. 1, 32.

**WISCONSIN.**

J. JASTROW,

Ph.D., Johns Hopkins; Professor of Exper. and Comp. Psychol.

Exper. Psych. 5, 12, J.-Apr.

Comp. Psych. 3, 36, S.-Ju.

Morbid Psych. 3, 36, S.-Ju.

Anthropological Psych. 3, 36, S.-Ju.

Research in Psych. Laboratory. S.-Ju.

J. W. STEARNS [see 8].

School Supervision. 2, 14, S.-Ja.

The Herbartian Pedagogy. 2, 12, Ja.-A.

Problems in Applied Psych. 3, 10,

A.-Ju.

Pedagogical Seminary.

**YALE.**

GEO. M. DUNCAN [see 8].

Advanced Psychology. 2, 32.

E. W. SCRIPTURE,

Ph.D., Leipzig, 1891; Instr. in Exper. Psychol.; Director of Psychol. Lab.—Leipzig, Berlin, Zürich; Fellow at Clark, '91-2; Asst. Ed. *Amer. Journal Psychol.*—Psychology, terminology and methods, association of ideas, beats and difference tones, temp. sense, educational psychol.

Exper. Psychol. 2, 32.

[omitted 1894-95.]

Adv. Lab. Course in Psychol. 2, 32.

[omitted 1894-95.]

Research Work in Psychol. 4, 32.

Educational Psychol. 2, 32.

\*Physiological and Exper. Psychol. 2, 32.

\*Lab. course in Psychol. 2, 32.

E. F. BUCHNER [see 8].

Herbart Seminary. 2, 32.

J. A. GILBERT,

Ph.D., Yale, 1894; Asst. to E. W. Scripture.

**10. HISTORY AND POLITICS.**

[See also 11 and 12.]

**BROWN.**

*Library somewhat rich in Americana; more than 10,000 pamphlets, New England and England, period 1750-1850; Harris Collection of Amer. Poetry, 7000 vols. Hist. coll. of R. I. Hist. Soc., books and MSS., 15,000 vols., esp. 1700 vols. R. I. newspapers. Near by are State Law Lib., 16,000 vols.; Providence Pub. Lib., 70,000 vols., contains Harris Collection on Slavery and Civ. War, 1000 vols. and 10,000 pamphlets.*

J. FRANKLIN JAMESON,

Ph.D., Johns Hopkins, 1882; Prof. Hist.

—Assoc. in Hist., Johns Hopkins, 1882-88.

—Amer. const. hist.; Hist. Writing in America; Dict. U. S. Hist.

Principles of Hist. Crit. 1, 34.

Hist. of Mod. Europ. Historiography

1, 34.

[not given in 1894-95.]

Pract. research in Eng. Hist. 1, 34.

\*Pract. research in U. S. Hist. 1, 22, Ja.-Ju.; 3, 10, Apr.-Ju.

\*Sem.: Hist., Econ., Pol. 1½, fort.

WILFRED H. MUNRO,

A.M., Brown, 1873; Assoc. Prof. of History and Director Univ. Extension.—Pres. Devraux College, '81-89; Heidelberg. Freiburg, '89-91.

Renaissance. 3, 10, Apr.-Ju.  
 Reformation. 3, 10, Apr.-Ju.  
 Seminary: Mediev. and Eccles. Hist.  
 fort. this year.

GEORGE G. WILSON [see 13].

Development of Political Theory. 3,  
 12, S.-D.  
 Roman Law. 3, 12, Ja.-Mr.  
 Seminary: History, Econ., Politics.  
 1½, fort.

### BRYN MAWR.

1 Fellowship of \$525.

C. M. ANDREWS,

Ph.D., Johns Hopkins, 1889; Assoc. in  
 History. — Johns Hopkins: Fellow, '88-89.

Historical def., method, and crit. 1,  
 30.

Hist. Roman Law. 1, 30.

Sources of Eng. Hist. 2, 30.

\*Eng. and Amer. const. hist. 2, 30.

### CALIFORNIA.

B. MOSES,

Ph. D., Heidelberg; Prof. Hist. and Pol.  
 Econ.

Seminary: Economics and Politics.

History of Political Theories.

Science of Politics.

Spanish-American History and Insti-  
 tutions.

W. C. JONES,

A.M.; Prof. Jurisprudence.

Studies in Comparative Law.

Constitutional Law of the United  
 States.

Cases in International Law.  
 Jurisprudence.

T. R. BACON,

A.B., Yale; Assoc. Prof. European Hist.

Political History of the 19th cent.

C. C. PLEHN,

Ph.D., Göttingen; Asst. Prof. Econ. Hist.  
 and Finance.

Local Government and Administra-  
 tion.

Finance and Taxation.

### CHICAGO.

HERMANN EDOUARD VON HOLST,

Ph.D., Heidelberg, 1865; Head prof. His-  
 tory. — Dorpat, Heidelberg; a. o. Prof.  
 Hist. and Constitut. Law of U. S., Stras-  
 burg, '72-4; Prof. Mod. Hist., Freiburg,  
 '74-92; Pro-rector magnif. Alberto Ludov-  
 viciana, Freiburg, '87-8; Corr. Mem. Roy.  
 Prus. Acad., formerly asst. ed. Schem's  
 Deutsch-American Conversations-Lexicon.  
 — Constitutional hist. U. S., Staatsrecht d.  
 Vereinigtenst. v. Am., Calhoun, Oeffent-  
 liche Rechte.

The History of Europe in 19th  
 cent. from 1815. 4, 36, O.-Ju.  
 American and Mod. Eur. History.  
 4, 36, O.-Ju.

B. S. TERRY,

Ph.D., Freiburg, 1892; Prof. Medieval  
 and English Hist. — Colgate Univ., Frei-  
 burg, '91-2; Colgate: Prof. Civil Hist.  
 and English, '85-9; Prof. Hist. and Polit.  
 Sci., '89-92.

Introduction to study of Mod. Hist.  
 4, 12, O.-D.

The Feudal Period: Holy Roman  
 Empire. 4, 12, O.-D.

English Hist.: The Norman Period.  
 4, 12, O.-D.

The Feudal Period: Feudal France.  
 4, 12, Ja.-Mr.

English Hist.: The Early Angevin  
 Period. 4, 12, Ja.-Mr.

The Upgrowth of English Monar-  
 chy. 4, 12, A.-Ju.

Eng. Hist.: Later Angevin Period.  
 4, 12, A.-Ju.

The first migrations. 4, 12, Jul.-S.

Sem.: Early Germ. hist. 12, Jul.-S.

G. S. GOODSPEED [see 1 and also 8].

Hist. antiquity to Persian Emp. 4,  
 12, O.-D.

The Beginnings of Hebrew History.  
 4, 12, O.-D.

The History of the Hebrew Mon-  
 archy. 4, 12, Ja.-Mr.

Hist. of Egypt. 4, 6, A.-My.

The Hist. of Ancient Babylonia and  
 Assyria. 4, 6, My.-Ju.

The Hist. of Rome to the Antioines.  
 4, 12, A.-Ju.

Biblical History. 4, 12, Jul.-S.

## Chicago — Continued.

## O. J. THATCHER,

A.B., Univ. Exeter; Assoc. Prof. in history.

The Mediæval Period (with Mr. Conger). 4, 12, O.-D., and 4, 12, Ja.-Mr., and 4, 12, A.-Ju.

Outline History of Middle Ages. 4, 12, Jul.-S.

## F. W. SHEPARDSON,

Ph.D., Yale, 1892; Docent in American History. — Yale, '90-2; Ed. Univ. Extension World. — Scotch-Irish, Puritan, Huguenot elements in Am.

History of the U. S. 4, 12, Ja.-Mr.

Pol. Parties in the U. S. 4, 12, A.-Ju.

Social life in Am. colonies. 4, 12, A.-Ju.

American History. 4, 6, Jul.-Au.

American History. 4, 6, Jul.-Au.

## C. T. CONGER (and R. C. H. CATTRALL),

A.B.; Assistant in History.

The Modern Period. 4, 12, O.-D. and Ja.-Mr., and A.-Ju.

## R. C. H. CATTRALL,

A.B.; Reader in History.

The Protestant Reformation and Religious Wars. 42, 1, Ja.-Mr.

The French Revolution and Era of Napoleon. 4, 12, A.-Ju.

## COLUMBIA.

*United with courses in Economics and Law under Faculty of Political Science.*

## J. W. BURGESS,

Ph.D., LL.D.; Prof. of History, Political Sci., and Constitut. Law. — Joint-Ed. *Polit. Sci. Quart.*

Polit. and Constitut. Hist. U. S. 4, 14, F.-My.

## H. L. OSGOOD,

Ph.D., Columbia, 1889; Adj. Prof. History. — Yale, '79-80; Berlin, '82-3; Columbia, '88-9; Brit. Mus., '89-90; Teacher of Hist. in Secondary Schools, '77-9, '83-9; Present Joint-Ed. *Polit. Sci. Quart.* —

Early Amer. Hist., esp. Hist. of Puritanism and Constitut. relat. bet. England and colonies; economic socialism; scientific anarchism.

Constitut. Hist. England. 2, 30.

Constitut. Hist. Europe. 4, 16, O.-Ja.

Seminar. in Europ. Hist. 2, 30.

Amer. Colon. Hist. to 1783. 2, 60 (2 yrs. course).

Seminar. in Amer. Hist. 1, 30.

## W. A. DUNNING,

Ph.D., Columbia, 1885; Adj. Prof. Hist. and Political Philos. — Columbia, '81-5; Columbia: Lect.; Instr.; Ed. *Polit. Sci. Quart.* — U. S. Hist. from 1860-77; Polit. theory; relations of England and Ireland.

Relations of Engl. and Ireland. 1, 16, O.-Ja.

Constitut. Hist. U. S. in Civil War and Reconstruct. 2, 14, F.-My.

Gen. Hist. Polit. theories. 3, 30.

Amer. Polit. Philos. 1, 30.

Seminar. in Polit. Philos. 1, 30.

## F. BANCROFT,

Ph.D.; Lect. on Amer. Hist.

N. Y. State and Federal Politics, 1820-1860. 2, F.-My.

## A. C. BERNHEIM,

LL.B., Ph.D.; Prize Lect., '91-4, on N. Y. State and City Politics.

Charter and polit. hist. of N. Y. City. 2, 16, O.-Ja.

[Unassigned]:

Early Church Hist. 2, 30.

Mediæval Church Hist. 2, 30.

Modern Church Hist. 2, 30.

Amer. Church Hist. 2, 30.

## CORNELL.

[See Appendix.]

## HARVARD.

*Library esp. rich in Early Americana, Colonial records, Revolut. tracts, publicat. of hist. socs., Sparks and other collect. MSS., early maps; British partiam. papers, Record Comm. publicat., Rolls series, Monumenta Germaniae Historica, Documents Indit., Near by are hist. colls. of Boston Pub. Lib., Boston Athenæum, and Mass. State Lib. Am. hist., biog., genealog., geog., 22,348 vols., Congressional docs., 2800 vols.; Am. slavery, 2300 titles; Carlyle's lib. of Cromwell and Frederick the Great, 422 vols., loose maps, 12,000.*

## E. EMERTON,

Ph.D.; Prof. Eccles. Hist.

- Church and state (sem. in med. hist.).  
 \*The Era of Reformation in Europe [1350-1563].  
 \*[The First Eight Christian Centuries.] 2, 31.  
 \*[The Middle Ages from Charlemagne to Dante.] 2, 31.
- S. M. MACVANE,  
 A.B.; Prof. of History.  
 Recent constitut. hist. (sem.).  
 \*Europ. hist. from mid. 18th cent. 3, 16, O.-Ja.  
 \*Constitut. hist. Eng. since George II. 3, 16, O.-Ja.
- EDWARD CHANNING,  
 Ph.D., Harvard, 1880; Asst. Prof. of History. — Harvard; var. European univ. — Am. hist. and institut., esp. orig. Am. local institut.  
 \*European hist., 17th cent. and first half 18th cent. Constitut. hist. Eng. during Stuarts. 3, 31.  
 \*Am. hist. (to 1783). 3, 31.  
 Am. hist. and institut. (sem.) (with Prof. Hart).
- ALBERT BUSHNELL HART.  
 Ph.D., Freiburg, 1893; Asst. Prof. of Hist.  
 \*Const. and Pol. Hist. of U. S., 1783-1865. 3, 31.
- CHARLES GROSS,  
 Ph.D., Göttingen, 1883; Asst. Prof. of History. — Leipzig, Berlin, Göttingen, Munich, Paris, '79-83; London, '84-8. English guilds, E. Municipalities, E. coroner and judiciary, E. exchequer of Jews.  
 \*Hist. of France to Francis I. 3, 31.  
 \*Constitut. hist. Eng. to 16th cent. 3, 31.  
 Sources and lit. of Engl. constitut. hist. 1, 31.  
 English Institutions in the Middle Ages (sem.).
- JUSTIN WINSOR,  
 LL.D.; Librarian.  
 Geographical discov. in N. Am. 2, 16, O.-Ja.
- A. C. COOLIDGE,  
 Ph.D., Freiburg, 1892; Instructor in Hist.
- \*Hist. of Northern and Eastern Europe (Denmark, Sweden, Poland, Russia, Turkey) from 1453 to 1795. 3, 16, O.-Ja.
- F. SNOW,  
 LL.B., Ph.D.; Instr. in Inter. Law.  
 \*Hist. of Amer. Diplomacy. 3, 31.  
 Diplomatic Hist. (sem.).  
 [Unassigned:]  
 [Technical Aids to Study of Hist.: Chronology, Diplomatics, Palæography, etc.]  
 \*[Hist. of Western Europe from Germanic Invasions to Treaty of Verdun.]  
 \*[Roman Hist. to reign of Diocletian.]
- JOHNS HOPKINS.  
*Coll. on Swiss hist. and instit., 475 vols., 700 pam., 20 MSS.; Birney coll. on Slavery, 1000+ vols.; Scharff coll., Southern hist. and Civil war, 50,000 vols., pams., etc.*
- H. B. ADAMS,  
 Ph.D., Heidelberg, 1876; LL.D., U. of Ala.; Prof. American and Institutional Hist. — Heidelberg; Johns Hopkins; Ed. *Studies in Histor. and Polit. Science.*  
 Seminary: Hist. and Pol. fort., 30.  
 Roman Hist. and Pol. 2, 15, O.-Ja.  
 French Absolutism and the Revolution. 2, 15, F.-My.  
 Hist. of the 19th cent. 1, 15, O.-Ja.  
 \*Church hist. and Mediæval Civilization. 2, 30.
- J. M. VINCENT,  
 Ph.D., Johns Hopkins; 1890; Assoc. in History.  
 Methods of hist. research. 2, 30.  
 Hist. conference. 2, fort., 30.  
 Hist. Journal Club. 1, 30.  
 \*Reformation and Puritan Revolution. 2, 30.
- B. C. STEINER,  
 Ph.D., Johns Hopkins, 1891; Assoc. in Hist.  
 \*Amer. Constit. and Pol. Hist. 2, 30.
- DR. J. SCHOUER,  
 Ed. Hist. of U. S. under the Constitution.  
 State Constitutions and State Constit. Hist. 3 hours weekly, F. and Mr.

**Johns Hopkins — Continued.****DR. W. T. HARRIS,**

U. S. Commissioner of Ed.

Hist. of Education. 10 lectures, begin. in O.

**LELAND STANFORD, JR.****G. E. HOWARD,**

Ph.D., Univ. of Nebraska, 1894; Prof. of Hist.—Munich and Paris, 1876-1878; Prof. of Hist., Univ. of Nebraska, 1880-1891; Sec. Neb. State Hist. Soc., 1885-1891.—Local constitutional Hist. of U. S.; The King's Peace; Papers on University Questions.

\*Department Seminary (with Profs. Show, Spencer, Barnes, and Kriehn). 2, 32.

\*Amer. Hist. to 1775. 2, 32.

\*Amer. Hist. since 1875. 3, 32.

\*Development of Eng. Const. 2, 32.

**A. B. SHOW,**

A.M., Doane College, 1882; B.D., Andover Theological Seminary, 1885; Assoc. Prof. of Mediæval Europ. Hist.—Prof. of Hist. and Eng. Lit., Doane College, 1887-1892.

\*Church and State in Middle Ages. 2, 32.

\*Renaissance. 2, 32.

**D. E. SPENCER,**

A.M., Harvard, 1891; Asst. Prof. Europ. Hist., Univ. of Wis., 1887-1888.—Instr. in Rhetoric, 1888-9; Instr. in Hist., 1889-1890, Univ. of Wis.; Asst. in Hist., Harvard, 1891-1892; Acting Asst. Prof. of Hist., Univ. of Mich., 1892-3.—Government in Wisconsin.

\*Comparative Const. Law of the Europ. States. 2, 32.

**M. S. BARNES,**

A.B., Univ. of Michigan, 1874; Aget. Prof. of Hist.—Cambridge, Eng., '80-81; Zürich and British Museum, '87-88; Teacher of Greek, Latin, and History, Oswego (N. Y.) Normal School, '75-76; Prof. of Hist., Wellesley College, '77-79.—Studies in Gen. Hist.; studies in Amer. Hist.

\*Editing and Interp. of Sources. 1, 32.

**GEORGE KRIEHN,**

Ph.D., Strassburg, 1892; Asst. Prof. of Social and Institutional Hist.—Asst. in Hist., Johns Hopkins, 1892-94.—English Rising in 1450.

\*Social and Econ. Hist.

**MICHIGAN.****RICHARD HUDSON** [see also 11],

A.M., 1877; Prof. of Hist.—Leipzig, Strassburg, '92-3.—Comp. constitut. law.

\*The French Revolution and empire of Napoleon. 2, 17, O.-F.

\*Unification of Italy and of Germany. 2, 17, F.-Ju.

Seminary: Study of institutions. 2, 34.

**A. C. McLAUGHLIN** [see also 11],

A.B., LL. B.; Prof. American History.—Hist. higher educ. in Mich.; Lewis Cass.

Seminary: Later Amer. Hist. 2, 34.

**MINNESOTA.****W. M. WEST,**

Univ. of Minn., '79; M.A., '81.—Supt. of schools (Duluth, Faribault) to 1891; Prof. of Pedagogy, Univ. of North Dakota, 1891-92; Assistant Prof. of Hist., Univ. of Minn., 1892-93; Prof. of Hist., 1894.

Hist. writings of the Middle Ages. Eng. Const. Hist.

New England Colonial Hist.

Students will be guided in individual research in other lines.

**W. W. FOLWELL,**

Hobart College, 1857.—Prof. of math., Hobart, two years; travelled and studied abroad, '61-62; Lieutenant-Colonel, U. S. Army; Prof. of Math. and Engineering in Kenyon College, 1869; Pres. Univ. of Minn., 1869-1884; Prof. of Pol. Science since 1884.

U. S. Money. 1, 38.

Great Theorists in Pol. Science.

1, 38.

**PENNSYLVANIA.***Library of Amer. Hist., 12,000 volumes. (See also Economics, Colwell Library.)***J. B. McMASTER,**

C.E., Ph.D., Litt.D., Univ. of Penn., '94; Prof. Amer. Hist.—Fell. in Eng., Coll. City

of N. Y.; Instr. in civil engin., Princeton.  
— Hist. of the People of the U. S.; Life of Benjamin Franklin; Historical essays.

The Polit. and Econ. Hist. of U. S.,  
1763-1860. 3, 30.  
American Hist. Seminary.

#### T. N. THORPE,

Ph.D., Syracuse, '93; Prof. American  
Constit. Hist. — Syracuse, '80-83; Univ. of  
Penn., '85-87. — Govt. of People of U. S.;  
The Constitution; Franklin and Univ. of  
Penn.

Evolution of Rep. Govt. in America.  
2, 30.

Constitutions of the Commonwealths.  
2, 30.

Constitution of the U. S. 2, 30.  
Constitutional Hist. of Penn. 1, 15.  
Constitutional Govt. in Amer. (1895-  
96.)

Amer. Legislation, 1840-1890. (1895-  
96.)

Constitutional Hist. of Reconstruc-  
tion, 1860-76. 1, 15.

Seminary in Am. Constit. Hist.

#### D. C. MUNRO,

A.M., Brown; Instr. in Roman and  
Medieval Hist., in Brown, Univ. of Penn.  
— Hist. subjects.

Church and State from Charlemagne  
to Boniface VIII. 1, 30.

Hist. writings of the Middle Ages.  
1½, 30.

[Age of the Hohenstaufen. 1, 30.]  
[Hist. of the Early Roman Empire.  
1½, 30.]

#### J. Q. ADAMS,

Ph.D., Halle; Instr. in Polit. Sci.

Practical Politics. 1, 30.

#### E. J. JAMES,

Ph.D., Halle, '77; Prof. Polit. Sci. — Halle,  
Berlin, Leipzig; Pres. Am. Acad. Polit.  
and Social Science; Pres. Am. Soc. Univ.  
Extension; Ed. *Annals Am. Acad. Polit.  
and Soc. Sci.* — Economic and Educational  
subjects.

Public Administration. 2, 30.  
Polit. Science. 1, 30.

#### E. P. CHEYNEY,

A.M., Univ. of Penn.; Asst. Prof. Hist.,  
Univ. of Penn. — Modern Econ. Hist., esp.  
land tenures.

Hist. of Eng. Society. 2, 30.

Eng. Econ. and Social Hist. during  
Middle ages. 1½, 30.

Eng. Econ. and Social Hist. during  
Modern Times (1895-6). 1½, 30.

#### J. H. ROBINSON,

Ph.D., Freiburg, '89; Assoc. Prof. Hist.,  
Univ. of Penn. — Harvard, '87-88; Strass-  
burg, '88; Freiburg, '88-89; Assoc. Ed.  
*Annals Am. Acad. Polit. Science.* — Con-  
stitution Bundearath; Teaching of Hist.

Antecedents of the Reformation. 1,  
30.

Early years of French Revolution.  
1½, 30.

[Hist. of France from Henry IV. to  
Revolution. 1, 30.]

[France in 18th cent. 1½, 30.]

#### H. V. HILPRECHT [see 1].

Hist. of the Religion of Babylonia  
and Assyria from earliest times to  
475 B. C. 1, 30.

#### M. JASTROW, Jr. [see 1].

Hist. of Religion of Israel. 1, 30.

Hist. of Religion of Islam. 1, 30.

### PRINCETON.

*Coll. on Civil War, 3000 vols., 2500 pam. 1  
fellowship, worth \$200.*

#### W. M. SLOANE,

Ph.D.; Prof. History and Political Science.

\*Const. and polit. hist. Engl. since  
1688. 2, 16, O.-Ja.

\*Amer. polit. hist. 2, 16, F.-My.

\*Science of hist. 6 lectures.

\*Hist. of polit. theories. 2, 16, O.-Ja.  
Parliament. and congress. gov. 2, 16,  
F.-My.

Hist. sem., 2, 16, F.-My.

### VANDERBILT.

#### F. W. MOORE,

Ph.D., Yale; Adjunct Prof. of Hist. and  
Econ.



**Vanderbilt—Continued.**

- \*Pol. Hist. of U. S. 3, 32.
- Pol. Hist. of Modern Europe. 2, 32.
- Readings and Studies in Pol. Philosophy. 1, 32.

**WESTERN RESERVE.**

M. M. CURTIS [see 8].

Hist. of Pol. Theories. 2, F.-Ju.

E. G. BOURNE,

Ph.D., Yale, 1892; Prof. of Hist.—Instr. in Hist. and Lecturer on Pol. Science, Yale, 1886-88; Instr. in Hist., Adelbert College, 1888-90; Prof. of Hist., 1890.

Hist. of Discoveries. 2, F.-Ju.

The Period of Discoveries. 2, F.-Ju.

Methods of Hist. Research and Criticism. 2, S.-Ja.

The Renaissance. 2, S.-Ja.

The Protestant Revolution. 2, F.-Ju.

\*Eng. Polit. Hist. and Colonization since 1760. 3, F.-Ju.

\*Polit. Hist. of the U. S. from 1783 to 1880. 3, S.-Ju.

H. E. BOURNE,

B.D., Yale, 1877; Prof. of Hist.—Principal High School, Thomaston, Ct., '83-4; Yale, '87-8; Prof. Hist. and Psychology, Norwich Free Academy, '89-92; Prof. Hist. and Instr. in Philosophy, Coll. for Women, W. R. U., '92-3.—French Revolution; Hist. Reformation.

Church and State in the Middle Ages. 2, F.-Ju.

The French Govt. from death of Louis XIV. to the Present Time. 2, S.-Ja. or F.-Ju.

Rise of the French Monarchy. 2, S.-Ja.

French Gov. from the Assembly of the Notables to the Overthrow of the Directory. 2, S.-Ja. or F.-Ju.

**WISCONSIN.**

*The library of the State Hist. Society contains about 150,000 volumes, and is exceptionally rich in MS. and other material for the study of Amer. hist.*

F. T. TURNER,

Ph.D., Johns Hopkins; Prof. of Amer. Hist.

Econ. and social hist. of the U. S. 3, 36.

Const. and pol. hist. of the U. S. from the beginning of the Colonial period to the close of the War of 1812. 3, 36.

Hist. seminary. 2, 36.

C. H. HASKINS,

Ph.D., Johns Hopkins; Prof. of Institutional Hist.

Eng. Const. Hist. 2, 36.

Hist. of Institutions. 2, 36.

Sources of Greek and Roman Hist. 1, 36.

Hist. Seminary. 2, 36.

VICTOR COFFIN,

Ph.D., Cornell; Asst. Prof. of European hist.

Hist. of the 19th cent. 3, 36.

Special work in modern European Hist. 3, 36.

**YALE.**

*Lib. contains special collections of works on Congregational Hist. and Hist. of Pilgrims.*

A. M. WHEELER,

A.M., Yale, 1887; Durfee Prof. of Hist.

\*Hist. of Europe since 1789. 2, 32.

Eng. Hist. to acc. of Stuarts. 2, 32.

Invest. of spec. topics in French Hist. from 1789-1815. 2, 32.

C. H. SMITH,

A.M.; Larned Prof. Amer. Hist.—Prof. Math., Hist. and Pol. Sci., Bowdoin.

Amer. Hist. (Colonial). 2, 32.

Amer. Hist. (National). 2, 32.

G. B. ADAMS,

Ph.D., Leipzig, 1886; Prof. Hist.—Prof. Eng. Lit. and Hist., Drury Coll.—Medieval Hist.; Feud. Syst.; Renaissance.

\*Eng. Hist. to 1485. 2, 32.

\*Medieval Hist. 2, 32.

\*Medieval Institutions. 2, 32.

Investigation course, covering two years; second part given 1894-95.

F. W. WILLIAMS,

A.B., Yale, 1879; Instr. in Hist.

\*Europe, from Reformation to French Rev. 2, 32.

\*England, since 1485. 2, 32.

W. H. BREWER [see 20].

Phys. Geog., in relat. to Pol. Hist.  
1, 10, Ja. to Easter.

*The following course in Divinity Sch. open  
by permis. of Instr. to Grad. Students.*

G. P. FISHER,

A.M., Yale, 1867; D.D., Brown, '66; Edinb.,  
'86; Harvard, '86, LL. D.; Princeton, '79;  
Titus Street Prof. Eccl. Hist. in Div. Sch.,  
—Theology, esp. Hist., Ethics, Religion.  
Biog.

Gen. Church Hist. 3, 32.

[*For Gk. Historians and Athenian Com-  
monwealth, see 3.*]

## II. GOVERNMENT AND LAW.

[See also 10.]

### CHICAGO.

H. P. JUDSON,

A.M., Williams, '83; Prof. Political Science  
and Constitutional Hist., and Head Dean of  
the Colleges. — Prof. Hist., Minnesota, '85-  
'92.

Sem. in politics. 4, 36.

National Government. 4, 12, O.-D.

The Law of Peace. 4, 12, O.-D.

American State Gov. 4, 12, Ja.-Mr.

The Law of War. 4, 12, Ja.-Mr.

Municip. gov. in U. S. 4, 12, A.-Ju.

Federal gov. 4, 12, A.-Ju.

Comparative Politics. 4, 12, Jul.-S.

Civil Gov. in U. S. 4, 12, Jul.-S.

E. FREUND,

J.U.D.; Instructor in Roman Law and Juris-  
prudence. — Berlin and Heidelberg, '81-4;  
J.U.D., Heidelberg, 1884; Student, Colum-  
bia College Law School, '84-5; *Locum  
tenens* Professor of Administrative Law and  
Municipal Corporations, Columbia College,  
'92-3.

Institutes of Roman Law. 4, 24, O.  
—Mr.

Gen. Jurisprudence. 4, 12, O.-D.,  
and 4, 12, A.-Ju.

Administrative Law. 4, 24, Ja.-Ju.

CHARLES T. CONGER,

A.B.; Assistant in Political Geography. — A.  
B., University of Minnesota, 1890; Secretary  
Board of Education, Minneapolis, '90-2;  
Oxford, 1892; Fellow in the University of  
Chicago, '92-3; Docent, *ibidem*, '93-4.

Geog. of Europe. 4, 48, O.-D.

Hist. of Geog. 4, 12, O.-D.

W. C. WILCOX,

A.M., Rochester, 1891; Fellow in Political  
Science.

Civil Gov. in U. S. 4, 12, O.-D.

ELIZABETH WALLACE,

S.B.; Reader in Spanish and Spanish-Ameri-  
can Institutions, and Head of Beecher House.  
— S.B., Wellesley College, 1886; Teacher of  
History, '86-90; Graduate student, Univer-  
sity of Minnesota, '89-92; Fellow in the  
University of Chicago, '92-3; Docent, *ibid.*,  
'93-4.

A comparative study of the Latin-  
Am. Republics. 4, 12, Ja.-Mr.

### COLUMBIA.

J. W. BURGESS [see 10].

Comp. constitut. law of European  
states and of U. S. 3, D.-My.

Seminar. in constit. law. 2, 30.

MUNROE SMITH,

J.U.D., Göttingen, 1880; Prof. Roman  
Law and Comp. Jurisprudence. — Amherst,  
'74-5; Columbia, '75-7; Berlin, Leipzig,  
Göttingen, '77-80; Columbia; Instr., '80-  
3; Adj. Prof., '83-91; Managing ed.  
*Political Sci. Quart.* — Law of citizenship;  
codification.

Roman Law. 2, 30.

Hist. European law. 2, 30.

Comp. jurisprudence. 2, 30.

Conflict of private law. 1, 30.

**Columbia—Continued.**

Sem. in legal hist. 1, 30.  
Sem. in comp. legislation. 1, 30.

**F. J. GOODNOW,**

LL.B., Columbia; Prof. Administrative Law.—Columbia, École libre des sciences polit., Paris, Berlin; Joint ed. *Polit. Sci. Quart.*—Administr. law, common law, extraordinary legal remedies, municipal corporations, law of taxation.

Gen. comp. administr. law. 2, 30.  
Law of munic. corporations. 2, 16, O.-Ja.

Law of taxation. 2, 14, F.-My.  
Seminar. in Administr. law. 2, 30.

**J. B. MOORE,**

A.B.; Prof. Diplomacy and International Law.—Asst. Sec. State, U.S.A., '84-'92; Joint ed. *Pol. Sci. Quart.*

Internat. law. 2, 30.  
Hist. diplomacy. 2, 16, O.-Ja.  
Hist. Am. diplomacy. 2, 16, F.-My.  
Criminal law, including conflict of penal laws and extradition. 2, 30.  
Seminar. in Internat. law. 2, 30.

**A. C. BERNHEIM [see 10].**

Comp. constiut. law of American commonwealths. 1, 14, F.-My.

**CORNELL.****H. B. HUTCHINS,**

Prof. of Law.  
American constitutional law. 1, 24, O.-Mr.

**E. W. HUFFCUT.**

International law. 1, 32.  
Jurisprudence. 1, 32.

**HARVARD.**

*Coll. on Roman and civil law, 950 vols. Fellowship of \$450, assigned to students of constitut. or internat. law.*

**E. EMERTON [see 10].**

\*The canon law, esp. Protestant eccl. law. 1, 31.

**S. M. MACVANE [see 10].**

\*Prin. constitut. law. 3, 15, F.-My.  
Princ. of gov. 2, 15, O.-Ja.

**E. CHANNING [see 10].**

History of political theories, with especial reference to the origin of American Institutions. 2, 31.

**ALBERT BUSHNELL HART [see 10].**

\*Federal Government, historical and comparative. 3, 15, O.-Ja.  
Government and political methods in the United States, national, state, and municipal. 3, 31.

**FREEMAN SNOW,**

Ph.D., LL.B.; Instr. in Internat. Law.  
\*El. internat. law and hist. European diplomacy. 3, 31.  
[The historical development of international law.] 2, 31.

**F. B. WILLIAMS,**

A.M., Harvard, 1892; Instr. in Roman Law.—Harvard, '89-'90; Berlin, '90-'92; École de droit, École des sci. politiques, '92.  
\*Hist. and institutes of Roman law. 3, 31.

Roman Law. The Law of Obligations. Selections from the Corpus Juris. Development since the time of Justinian. 3, 15, O.-Ja.  
[Roman Law. The Law of Inheritance.] 3, 15, O.-Ja.

**FRANK LEE CONANT.**

A.M., LL.B.; Instructor in Hist.  
\*The Principles of the Common Law. Rights and their enforcement. Elements of Jurisprudence. 3, 31.  
Municipal Corporations. Methods of Judicial Control over Local Administration. Selected topics in public and administrative Law. 3, 31.

**JOHNS HOPKINS.****G. H. EMMOTT,**

Cambridge (Eng.), A.M., 1882; LL.M., '93; Prof. Roman Law and Comp. Juris-

prudence.—Cambridge; Assoc. and Lect. on Roman and English Law, Victoria Univ. (Eng.); Lect. in English Law to Birmingham Law Soc., '82-5; also Lect. on Civil Law, Columbian Univ.

Hist. and Prin. of Roman Law and Hist. of Roman Institute. 2, 30.

\*Eng. Constitut. Law and History. 2, 30.

Sources and lit. of Eng. hist. and history of hist. writing in Eng. from accession of Edward I. 1, 30.

#### DR. WOODROW WILSON,

Prof. Jurisprudence and Pol. Econ., Princeton.

Comparative Pol. and Administration. 25 lectures. 5 hours weekly, F. and Mr.

#### W. W. WILLOUGHBY,

Ph.D.; Johns Hopkins, 1891; Reader in Pol. Sci. Formerly fell. in hist., Johns Hopkins; Lect. in Pol., Leland Stanford, Jr.

Theory of the State. 1 hour weekly, beg. in D.

#### LELAND STANFORD, JR.

#### NATHAN ABBOTT,

A.B., Yale, 1876; Prof. of Law.—Prof. of Law, Univ. of Michigan, 1891-92; Northwestern Univ., 1892-94.

\*Seminary in Politico-Legal Questions. 1, 18.

#### MICHIGAN.

#### JAMES B. ANGELL,

LL.D.; President of the University.

\*International Law. 2, 17, O.-F.

\*History of treaties. 2, 17, F.-Ju.

#### RICHARD HUDSON [see 10].

Comp. constitut. law. 2, 34.

Comp. administ. law. 2, 17.

#### A. C. McLAUGHLIN [see 10].

Amer. constitut. law. 2, 34.

#### MINNESOTA.

#### W. W. FOLWELL [see 10].

Individual students are guided in the study of constitutional government and public or private international law.

#### PENNSYLVANIA.

*Biddle Law Library, 5000 vols.*

#### JAMES PARSONS,

A.M.; Prof. of Law; also Prof. Commercial Law, Contracts and Decedents Statist.—Principles of Partnership.

Sources of Common Law.

#### PRINCETON.

#### J. H. WESCOTT,

Ph.D.; Musgrave Prof. of Latin and Tutor in Roman Law.—Leipzig, '77-8, '92; Ecole de Droit, Paris, '78-9; U. of Penn. Law Sch., '80-1; Princeton: Tutor in Latin, '85-7; Instr. in French, '87-8; Asst. Prof. French, '88-9; Prof. Latin, '89-92.—Editions of parts of Livy and Aulus Gellius.

\*Roman Law. 2, 32.

Sources early Roman Law. 1, 32.

#### WOODROW WILSON,

Ph.D., Johns Hopkins, 1886; Prof. Jurisprudence and Polit. Econ.—Johns Hopkins, '83-5; Assoc. Prof. Hist. and P. Econ., Bryn Mawr, '85-8; Prof. Hist. and P. Econ., Wesleyan Univ., '88-90; also now Lect. on Administration at Johns Hopkins (q. v.).—Meth. congressional legislation, administration, hist. and organiz. of gov.; institut. and character of gov. of U. S.; hist. U. S.

\*Gen. public. 2, 16, O.-Ja.

\*Amer. const. law. 2, 16, F.-My.

\*History of law. 2, 16, O.-Ja.

\*Development of English common law. 2, 16, F.-My.

#### YALE.

#### W. C. ROBINSON,

LL.D., Dartmouth, 1879; Prof. Elementary and Crim. Law, and Law of Real Prop.—Elementary Law; Law of Patents.

\*Jurisprudence. 2, 12, O.-D.

## Yale — Continued.

## E. J. PHELPS,

LL.D., Yale, 1881; U. of Vt., '87; Harvard, '89; Kent Prof. Law.—International Relations; Constitutional Law.

\*Law (U. S. Common Law, Const. Law, Internal. Law). 2, 20, Ja.—Ju.

## E. V. REYNOLDS,

D.C.L.; Lecturer Const. Law.

Const. Govt. 2, 20, Ja.—Ju.

Mr. Albert S. Wheeler's course on Rom. Law in the Law School is open to Grad. Students under Certain Limitations.

## 12. ECONOMICS.

[Including Finance and Statistics; see also 10 and 13.]

## BROWN.

## HENRY B. GARDNER,

Ph.D., Johns Hopkins, 1890; Assoc. Prof. Political Economy.—A.B., Brown, '84; Assoc. Prof. Pol. Econ., Johns Hopkins, '84-88; Instr. Pol. Econ., Brown, '88-90; Berlin, '90-91.

History Economic Thought. 3, 12, Ja.—Mr.

Money and Banking. 3, 12, Ja.—Mr.

Public Finance. 3, 10, Ap.—Ju.

Financ. hist. U. S. 4, 12, A.—Ju.

Sem. in finance. 4, 24, O.—Mr.

Finance. 4, 12, O.—D.

Econ. and Social History. 4, 24, Ja.—Ju.

History of Pol. Econ. 4, 24, Jul.—D.

Principles of Pol. Econ. 4, 12, O.—D.

Scope and Method of Pol. Econ. 4, 12, Ja.—Mr.

## BRYN MAWR.

[Instructors not announced.]

Pol. Econ. (adv.). 5, 15, O.—Ja.

International Law. 5, 15, F.—My.

Other courses not yet arranged.

## WILLIAM CALDWELL,

A.M., Edinburgh, 1884; Tutor in Pol. Econ.—Jaen, Paris, Cambridge, Berlin, Freiburg; Asst. Prof. Logic, Edinburgh, '88-90; *Locum tenens* Prof. Moral Sciences, Cardiff, '88; Lect. on Logic and Methodol., Cornell, '91-2.

Scope and method pol. econ. 4, 12, Jul.—S.

Econ. factors in civiliz. 4, 12, Jul.—S.

## CHICAGO.

## J. LAWRENCE LAUGHLIN,

Ph.D., Harvard, 1876; Head Prof. Political Economy.—Harvard: Instr. Pol. Econ., '78-83; Asst. Prof. Pol. Econ., '83-8; Prof. Pol. Econ. and Finance, Cornell, '90-2.

Money and pract. economics. 4, 24, O.—Mr.

Econom. sem. 4, 36, O.—Ju.

Unsettled problems econom. theory. 4, 12, A.—Ju.

## DR. G. E. HILL,

Prin. of Pol. Econ. 4, 12, O.—D.

Adv. Pol. Econ. 4, 12, Ja.—Mr.

Railway transportation. 4, 12, Ja.—Mr.

Tariff hist. U. S. 4, 12, O.—D.

Banking. 4, 12, A.—Ju.

Oral Debates. 4, 12, A.—Ju.

Railway Transportation. 4, 12, Jul.—S.

## A. C. MILLER,

A.M., Harvard, 1888; Prof. Political Economy.—Harvard; Instr. Pol. Econ., Harvard, '89-90; Lect. Pol. Econ., California, '90-91; Assoc. Prof. Pol. Econ. and Finance, Cornell, '91-2.

Princip. pol. econ. 4, 12, Jul.—S.

Adv. pol. econ. 4, 12, Ja.—Mr.

## WILLIAM HILL,

A.M., Harvard, 1892; Inst. in Pol. Econ. Lee Memorial Fellow in Harvard University, 1891-3; Instructor in Political Economy, *ibid.*, 1893; Tutor in Political Economy, the University of Chicago, 1893-4.

## T. B. VEHLEN,

Ph.D., Yale, 1884; Tutor in Pol. Econ.—Graduate student, Johns Hopkins University; Fellow in Economics and Finance, Cornell University, 1891-2; Fellow in the University of Chicago, 1892-3; Reader in Political Economy, *ibid.*, 1893-4.

Socialism. 4, 24, O.—Mr.  
Am. agriculture. 4, 12, A.—Ju.

## JOHN CUMMINGS,

Ph.D., Chicago, 1894; Reader in Pol. Econ.—Fellow, the University of Chicago, 1893-4.

Social and Econ. Ideals. 4, 12, O.—D.  
History of Pol. Econ. 4, 12, O.—D.  
Descriptive Pol. Econ. 4, 12, Ja.—Mr.  
Scope and Method of Pol. Econ. 4, 12, Ja.—Mr.  
Social Economics. 4, 12, A.—Ju.

## I. A. HOURWICH,

Ph.D., Columbia, 1893; Docent in Statistics.—Graduate, Classical Gymnasium, Minsk, Russia, 1877; Seligman Fellow, Columbia College, 1891-2.

Statistics (el.). 4, 12, O.—D.  
Statistics (adv.). 4, 12, Ja.—Mr.  
Statistics. 2, 12, Jul.—S.

## COLUMBIA.

[See also under 10. Prize of \$150 for best Essay in Economics.]

## RICHMOND MAYO-SMITH [see also 13],

Ph.D., hon., Amherst; Prof. Political Econ. and Social Science.—Berlin, '75-7; Heidelberg, '78.; Mem. Nat. Acad. Sci.; Hon. Fell. Roy. Statis. Soc., etc.; Joint Ed. *Polit. Sci. Quart.*—Statistics and Econom.: bureau of labor; census of U. S. and census methods; wage statistics; emigration and immigration; internal revenue; methods in P. E.

Histor. and pract. pol. econ. 3, 30.  
Preliminary Sem. in. pol. econ., (with Prof. Seligman and Mr. Weston). 2, 30.

## E. R. SELIGMAN,

Ph.D., Columbia, 1884; Prof. Political Econ. and Finance.—Berlin, '79-80; Heidelberg, '80-1; Geneva, '81; Paris, '81-2; Columbia, '82-4; Co-ed. *Finans Archiv.*

*Polit. Sci. Quart.* and of *Stud. in Hist. Econom. and Public Law.*—Taxation and finance; railroads; socialism.

Science of finance. 2, 30.  
[Financ. hist. U. S. 2, 14, F.—My. 1895-96.]  
[Railroad probs. 2, 16, O.—Ja. 1895-96.]  
History of Pol. Econ. 2, 30.  
[Industrial Hist. U. S. 2, F.—My. 1895-96.]  
Seminar. in Pol. Econ. and Finance. 2, bi-weekly, 30.

## CORNELL.

*Open to graduates are Pres. White fellowship in Polit. and Social Sci., worth \$500, and two fells. in Pol. Econ. and Finance, worth \$400 each.*

## J. W. JENKS [see 10]:

\*Economic legislation. 2, 32.  
Sem. in econom. (with Dr. Hull).

## W. F. WILLCOX [see 13].

Economic geography. 2, 32.

## C. H. HULL,

Ph.D.; Asst. Prof.

\*Finance: taxation, pub. credit, administration. 2, 32.  
Recent economic theories. 2, 32.

## F. FETTER,

Socialism and communism. 2, 8, A.—My.

\*Money, credit banking; Monetary syst. U. S.; Hist. of fed. finance legis. 2, 32.

## HARVARD.

*Seminary in Pol. Econ. (1, 31) held by all instructors. Henry Lee memor. fell. yields \$450 to student of Polit. Econ. Tappan prize of \$150.*

## C. F. DUNBAR,

LL.D., Prof. Political Economy.

\*Hist. finance legis. in U. S. 3, 16, O.—Ja.

## Harvard — Continued.

The Theory and Methods of Taxation, with special reference to local taxation in the United States. 3, 16, O.-Ja.

Financial Administration and Public Debts. 3, 16, F.-Ju.

Seminary in Economics (with Profs. Ashley and Cummings).

[International Payments and the flow of Precious Metals. 3, 16, O.-Ja.]

[Banking and the History of the leading Banking Systems. 3, 16, F.-Ju.]

## F. W. TAUSSIG,

Ph.D., Harvard, 1883; LL.B., Harv., '86; Prof. Polit. Econ.—Berlin, '79-80; Harvard, '80-6; Mem. Pub. Com., Am. Econ. Assoc.; U. S. cor., Brit. Econ. Ass.; co-ed. *Quart. Jour. Economics*.—Tariff legis.; currency; railways.

[History of Tariff Legislation in the United States. 2, 31.]

## W. J. ASHLEY,

M.A.; Prof. of Economic History.—Schol. Balliol Coll., Oxford, 1878-82; Fell. Lincoln Coll. and Lect. on Hist., Lincoln and Corpus Christi Coll., Oxford, '85-8; Prof. Polit. Econ. and Constitut. Hist., Toronto, '88-92.—Economic history; var. papers on hist. of land tenures, and of industry.

[The Development of Land Tenures and Agrarian Conditions in Europe.]

Economic Theory from Adam Smith to the present time. Selections from Adam Smith and Ricardo. Modern Writers. Lectures. 3, 31.

{ First half year: Prof. Ashley;  
Second half year: Prof. Macvane. }  
[The History of Economic Theory, down to Adam Smith.] 2, 16, F.-Ju.

## EDWARD CUMMINGS,

A.M.; Asst. Prof. of Sociology.

\*Soc. and econom. cond. of workingmen. 3, 31.

Philosophy and Political Economy. Utopian Literature from Plato's Republic to the present time. 2, 31.

\*Principles of sociol.; Dev. of mod. state and its soc. functs. 2, 31.

## JOHNS HOPKINS.

## J. B. CLARK,

Prof. at Amherst.

Relation of State to Industry. 25 lectures. 5 hours weekly, beg. in O.

## PROF. F. FRANKLIN.

Lectures (6) on econ. topics not announced. Course follows preceding.

## DR. E. R. L. GOULD.

Statistics. 25 lectures. 2 hours weekly, beg. in Ja.

## SYDNEY SHERWOOD,

Ph.D., Johns Hopkins, 1891; Assoc. in Pol. Econ.

Munic. and Private Corp. 2, N.-Ju. Econ. Conference. fort.

Adv. Econ. Theory. 1, 30.

Current events and econ. lit. 1, 30.

\*Indust. hist. of England and U. S. 2, 15, O.-Ja.

Hist. of econ. thought. 2, 15, F.-My.

## LELAND STANFORD, JR.

## EDWARD A. ROSS,

Ph.D.; Prof. of Economic Theory and Finance.—Berlin, '88-9; Hopkins, '89-91; Asso. Prof., Ind. University, '91-2; Cornell, '92-3.—Taxation; Sinking Funds.

\*Money and Credit. 3, 14.

\*Advanced Economics. 2, 32.

Seminary. 2, 32.

## AMOS G. WARNER,

Ph.D.; Prof. of Econ. and Social Science.—Johns Hopkins, 1885-7; Sec. Charity Org. So., Baltimore, 1887-9; Asso. Prof., Univ. of Nebr., 1889-91; Supt. of Charities, D. C., 1891-3.—Co-op.; Statistical determ. of Causes of Pov.; var. articles on charities.

\*Corporate Industry. 3, 14.

## MICHIGAN.

*Weekly reports and discussions in Current Econ. Legislation and Literature.*

## HENRY C. ADAMS [see also 13],

Ph.D.; Prof. Pol. Econ. and Finance.—Johns Hopkins, Heidelberg, Berlin, Ecole

libre des sciences politiques, Paris; Lect., Johns Hopkins and Cornell; Statistician to interstate commerce commission; special expert agent on transportation, 11th cens., Div. Econom., School of Applied Ethics.—Finance, econom. theory, railway and transport. statistics.

\*Principles of science of finance. 2, 17, F.-Ju.

\*Transportation problem. 3, 17, F.-Ju.

Critical analysis of econom. thought. 1, 17, O.-F.

Seminary in Finance. 2, 17, O.-F.

Sem. in economics. 2, 17, F.-Ju.

F. M. TAYLOR [see also 13],

Ph.D., 1888; Junior Prof. Pol. Econ. and Finance.—Johns Hopkins, '84; Mich., '86-8; Prof. Hist. and Politics, Albion Coll., '79-92.—Natural law, right of the State to be.

\*Hist. and theory of money and banking. 2, 17, O.-F.

Hist. of pol. econ. 2, 17, F.-Ju.

C. H. COOLEY,

Ph.D.; Asst. Pol. Econ.—Chief of transport. div. 11th cens.; Transportation, esp. fed. regulation of safety appliances and urban transport.; theory of statistics.

\*Theory of statistics. 1, 34.

\*Special studies in Statistics. 2, 17, F.-Ju.

FRANK H. DIXON,

Ph.B.; Asst. in Polit. Econ.

\*History of tariff in the U. S. 2, 17, F.-Ju.

#### MINNESOTA.

W. W. FOLWELL [see 10].

Individual students are directed in the study of economic history, theories and other special topics.

#### PENNSYLVANIA.

*The Coburn Library, 7000 volumes, one of the most complete collections in the world on Finance and Political Economy.*

E. J. JAMES [see 13].

Public Finance. 2, 30.

S. N. PATTEN,

Ph.D., Halle, '78.; Prof. Pol. Econ.—Halle; V.-Pres. Am. Economic Ass'n.—Economic subjects; Malthus and Ricardo; Dynamic Economics.

Hist. of Pol. Econ. 2, 15.

Recent Development of Pol. Econ. 2, 15.

Relation of Eng. Philos. to Economics in 18th cent. 2, 15.

Problems of Sociology. 2, 15.

Research course.

R. P. FALKNER,

Ph.D., Halle; Assoc. Prof. Statistics.

Introduction to Statistics. 2, 15.

Statistics of Econ. Problems. 2, 15.

Statistical Practice and Theory. 1, 30.

History of Statistics. 1, 30.

J. F. JOHNSON,

A.B.; Assoc. Prof. Business Practice.—Harvard.

Practical Economics; Panics. 1, 30.

#### VANDERBILT.

FREDERICK W. MOORE,

Ph.D., Yale; Adjunct Prof. of History and Economics.

\*Money, Exchange and Banking. 3, 16.

Political Economy (adv.). 2, 32.

Public Finance. 1, 32.

Seminary: Direction in Researches.

#### WESTERN RESERVE.

STEPHEN F. WESTON,

Ph.D., Columbia, 1894; Instructor in Economics.—Instructor, Columbia, 1892-94.—Finance; *Justice in Taxation*.

Courses in Economics to be arranged.

E. G. BOURNE [see 10].

Economic History.

Political Economy (adv.). 3, F.-Ju.



## WISCONSIN.

RICHARD T. ELY,

B.A., Columbia; Ph.D., Heidelberg;  
LL.D.; Prof. Pol. Econ.—Director of School  
of Economics.—Pol. Science and Hist.

Distribution of wealth. 2, 36.

Hist. of economic thought. 3, 12, Ja.  
—Mr.

Public Finance. 3, 14, S.-D.

American Taxation. 3, 12, Ja.—Mr.

Social Ethics. 3, 10, A.—Ju.

Socialism. 3, 14, S.-D.

Economic Seminary. 2, 36.

W. A. SCOTT,

Ph.D. Johns Hopkins; Associate Prof. of  
Pol. Econ.Theories of value and interest. 2, 36.  
Theories of rent, wages, and profits.  
2, 36.Theories of production and consump-  
tion. 2, 24, S.—Mr.The theories and statistics of monetary  
problems. 2, 10, A.—Ju.The economics of agriculture. 2, 12,  
Ja.—Mr.

## YALE.

*Pol. Sci. Club holds regular meetings for dis-  
cuss. of orig. papers.*

H. W. FARNAM,

R.P.D., Strassburg, 1878; Prof. Pol. Econ.  
—Yale, '74-75; Berlin, Strassburg, Göttin-gen, '75-78; Tutor, Yale, '78-80; Joint Ed.  
*Yale Review*.—Guilds; Labor Quest.; Poor  
Relief, etc.Mod. Organ. of Labor. 2, 12, O.  
—D.

Prin. Pub. Finance. 2, 20, Ja.—Ju.

W. G. SUMNER [see 13].

Politics and Finance in Hist. of U. S.  
2, 32.

A. T. HADLEY,

A.M., Yale, 1887; Prof. Pol. Econ.—R.  
R. Transportation; Pol. Sci.

\*Economics (Gen. Course). 2, 32.

\*Economics (req. more orig. wk. than  
gen. course). 3, 32.

Econom. Prob. of Corp. 1, 32.

Relat. bet. Econ. and Ethics. 1, 32.

J. C. SCHWAB,

Ph.D., Göttingen, 1889; Asst. Prof. Pol.  
Econ., Yale, '86-7; Berlin, '87-8; Göttin-  
gen, '88-9; Lect. in Pol. Econ., Yale, '90;  
Ed. *Yale Review*.—Hist. local taxation and  
finance in U. S.; Finan. Hist. Confed. States;  
Pub. Fin.

\*Economic Policy. 3, 32.

U. S. Financ. Hist. (Invest. Course).  
1, 32.

U. S. Pub. Finance. 1, 12, O.—D.

IRVING FISHER [see 16].

Math. Theory of Prices. 2, 32.

## 13. SOCIAL SCIENCE, ANTHROPOLOGY AND ETHNOLOGY.

## BROWN.

GEORGE G. WILSON,

Ph.D., Brown, 1889; Assoc. Prof. Polit. and  
Soc. Science.—London, Oxford, Paris, and  
Berlin, '90-91.Principles of Sociology. 3, 12, S.  
—D.Modern Social Problems. 3, 22, Ja.  
—Ju.

Social Philosophy. 3, 10, A.—Ju.

ALPHEUS S. PACKARD [see 20].

Anthropology. 3, 13, A.—Ju.

## BRYN MAWR.

[Instructor not announced.]

Sociology. 1, 30.

Seminary in Sociology.

## CHICAGO.

ALBION W. SMALL,

Ph.D., Johns Hopkins, 1889; Head Prof.  
Sociology, and Dir. of the Affiliated Work.—  
Newton Theol. Inst., '76-9; Berlin, '79-80;  
Leipzig, '80-1; Johns Hopkins, '88-9;  
Colby Univ.: Prof. History and Pol. Econ.,  
'81-8; President, '89-92.

Methodology and bibliog. of soc. sciences. 4, 6, Jul.-Au.

Province of sociol. and its relat. to special soc. sciences. 4, 12, O.-D.

Province of sociol. and its relat. to special soc. sciences. 8, 6, Jul.-Au.

Probs. soc. statics. 4, 36, O.-Ju.

Problems of social dynamics. 4, 36, O.-Ju.

Social anatomy, physiology and psychology. 4, 24, Ja.-Ju.

#### CHARLES R. HENDERSON,

A.M., B.D., Bapt. Union Theolog. Sem.; Asso. Prof. of Sociology and Chaplain of the Univ.—Pastor, Terre Haute, '73-82; Detroit, '82-92.—Papers on labor questions, charities, reforms, dependents, defectives and delinquents.

Social organiz. for promot. soc. welfare (sem.). 2, 36, O.-Ju.

Soc. instituts. of organiz. Christianity. 4, 6, N.-D.

Voluntary associations. 4, 6, N.-D.

Soc. treatment of dependents and defectives. 4, 6, N.-D.

Social conditions in Am. Rural Life. 4, 6, Ja.-F.

Economical and Governmental Agencies for advancing general welfare. 4, 6, Ja.-F.

Modern cities and Coöperation of their beneficent forces. 4, 6, F.-Mr.

Social treatment of crime and criminals. 4 or 8, 6, A.-My.

The family. 4, 6, O.-N.

Sociology of the New Testament. 4, 6, My.-Ju.

Historical development of the great philanthropies and reforms. 4, 6, A.-My.

Methods of promot. soc. welfare by voluntary organiz. 8, 6, Au.-S.

#### MARION TALBOT,

A.M., Boston Univ.; Asst. Prof. Sanitary Science, and Dean (of women) in Univ. Colleges.—Mass. Inst. Technol.; Lect., Lasell Sem., '88-91; Instr. Domestic Sci., Wellesley, '90-92.

Sanitary science (sem.). 2, 36, O.-Ju.

House sanitation. 4, 12, O.-D.

Sanitary aspects of water, food and clothing. 4, 12, Ja.-Mr.

The economy of living. 4, 12, A.-Ju.

General hygiene. 4, 12, A.-Ju.

#### FREDERICK STARR,

Ph.D., Lafayette Coll., 1885; Asst. Prof. Anthropology and Curator of Museum.—Prof. Biol. Sci., Coe Coll., '84-8; in charge of Dept. Ethnol., Am. Mus. Nat. Hist., '89-91.

Lab. work in anthropol. 4, 36, O.-Ju.

Physical anthropol. (lab.). 4, 36, O.-Ju.

General anthropology. 4, 12, O.-D.

Ethnology. 8, 12, Ja.-Mr.

Prehistoric Archæology. 4, 12, A.-Ju.

#### E. W. BEMIS [see 12].

Child labor and immigration legislation. 4, 6, Jul.-Au.

Some trades union demand for activity. 4, 6, Jul.-Au.

Trades unionism and coöperation. 4, 12, A.-Ju.

The State as an agent for amelioration and reform. 4, 12, A.-Ju.

#### GERALD M. WEST,

Ph.D.; Docent in Anthropology.

Applied anthropol. L 10, 36, O.-Ju.

#### W. I. THOMAS,

Ph.D.; Fellow in Sociology.

The historical sociologies. 4, 12, Ja.-Mr.

#### GEO. E. VINCENT,

A.B.; Assistant in Sociology.

Urban life in the U. S.

#### CLARK.

#### A. F. CHAMBERLAIN,

Ph.D., Clark, 1892; Lecturer in Anthropological Psychology.—Toronto, '87-90; Clark, '90-92.—American anthropology, ethnology, linguistics, and folk lore; Canadian-French, and American dialects; Low German languages and literature; Linguistic Psychology.

General anthropology, including hist., phys. anthrop., ethnogr., ethnol., linguistics, criminal and patholog., histor. and archæol. anthrop.

Anthropology and ethnology of sex. History and sociology of woman. Woman in art, religion, language, civilization, etc.

## Clark — Continued.

The Child amongst primitive peoples.  
 Comparative mythology of America  
 and the Old World.  
 Psychology of Primitive Languages.  
 Comparative Literature. The be-  
 ginnings of Art in language.  
 The Aesthetic ideas of Primitive  
 Peoples.  
 Relations of Anthropology to Psy-  
 chology and Pedagogy.

## COLUMBIA.

## R. MAYO-SMITH [see 12.]

Communitistic and socialist theories.  
 2, 30.  
 Practical Statistics. 2, O.-Ja.  
 Statistical Science. 2, 30.  
 Ethnology and the Population of the  
 U. S. 2, F.-My.  
 Sem. in Statistics. 4, 30.  
 Communitistic Theories, 1895-96.

## FRANKLIN H. GIDDINGS,

A.M., Union Coll.; Prof. Political Science.  
 — Ed. Monographs of Am. Econom. Ass.;  
 V.-P. Am. Acad. Polit. and Social Sci., and  
 Assoc. Ed. of Vol. I. of its *Annals*. — Profit  
 sharing, distribution, theory of capital and  
 interest, theory of sociology.

Sociology. 2, 16, O.-Ja.  
 Crime and Penology. 2, 14, F.-My.  
 Evolution of Family. 2, F.-My.  
 Pauperism and Charities. 2, O.-Ja.  
 Seminar. in sociology.

## R. A. SELIGMAN [see 12.]

Social effects of Taxation. 2, 30.  
 [Corporation Problems, 1895-96.]

## L. FARRAND [see 9].

Anthropology. 2, 30.

## W. Z. RIPLEY,

Ph.D.; Prize Lect., '93-96, on Phys. Geog.  
 and Anthropol.

Phys. Geog., Anthropol. and Ethnol.  
 2, 30.

## CORNELL.

[See under 12.]

## W. F. WILLCOX,

Ph.D.; Associate Prof. Social Science and  
 Statistics.—Boston Univ. (Law), '84-5;

Columbia, '85-7; Yale, '88-9; Berlin, '89-  
 90; Instr. Philos., Cornell, '91-2. — Vital  
 and Soc. statistics; divorce.

\*Social statistics. 2, 32.

Social science (adv.). 2, 32.

## HARVARD.

*Peabody Mus. Am. Archaeol. and Ethnol., with  
 its library, is intended for research. 1 fel-  
 lowship of \$500 in archaeology; 2 prizes of  
 \$100 each for essays on social questions.*

## F. W. PUTNAM,

A.M.; Peabody; Prof. Am. Archaeology and  
 Ethnol.; Curator Peabody Mus. — Chief of  
 Dept. Ethnology, Archaeology and Hist. at  
 World's Columb. Expos.

Course in spec. training in archaeol.  
 and ethnol. during 3 yrs.; lects.,  
 field work, explorat. Ability to use  
 French and Spanish necessary.

General Anthropology, with special  
 reference to American archaeology  
 and ethnology. Lectures and  
 laboratory work. 1 and Lab., 31.

## LELAND STANFORD, JR.

## AMOS G. WARNER [see 12].

Social Pathology and Charities.

2, 32.

Seminary. 2, 32.

## EDWARD A. ROSS [see 12].

Statistical and Dynamic Sociology.

2, 32.

## MARY R. SMITH,

M.S.; Teacher of Hist., Washington, D.  
 C. — Cincinnati; Wellesley, '86-90.

Principles of Household Manage-  
 ment. 2, 18.

## MICHIGAN.

## HENRY C. ADAMS [see 12].

Critical exam. of labor and monopoly  
 problems. 1, 17, F.-Ju.

## F. M. TAYLOR [see 12].

\*Land Problems, histor. and theoret-  
 ically considered. 2, 17, O.-F.

\*Socialism. 2, 17, F.-Ju.

\*Industrial Hist. of U. S. 2, 17, O.-F.  
 Social philosophy with esp. ref. to  
 economic prob.

## MINNESOTA.

- SAMUEL G. SMITH,  
D.D.; Pastor of the People's Church, St. Paul.  
History, principles, and elements of sociology, with discussions of pauperism, crime, care of defectives, etc. Mr.-My. 3 hours per week.

## PENNSYLVANIA.

*Museum of American Archaeology and Ethnology.*

- DANIEL G. BRINTON [see 7].  
Courses in Archæolog. Exploration, esp. American; relat. of Archæology and Ethnology.

## PRINCETON.

*Fellowship of \$500 in Social Science.*

- W. M. DANIELS,  
A.M.; Asst. Prof. Political Economy.  
\*Public finance. 2, 16, O.-Ja.  
\*Hist. polit. econ. 2, 16, F.-My.

## WESTERN RESERVE.

- C. F. THWING,  
D.D., Chicago Theolog. Sem., '88. — Pres. West. Res. Univ., 1890.  
The Family as an Historical and Social Institution. S.-Ju.  
M. M. CURTIS [see 8].  
Anthropology. 3, S.-Ja.; or Sociology. 3, F.-Ju.  
HENRY E. BOURNE [see 10].  
History of the Working Classes in Modern Times. 2, F.-Ju.  
E. G. BOURNE [see 10].  
Modern Socialism. 1, S.-Ju.

## YALE.

- W. G. SUMNER,  
LL.D., Jena, 1884; Prof. Pol. and Soc. Sci. — Money, Wages, Protectionism, Soc. Classes, Elections, Biog. of Financiers.  
Hist. Develop. of Mod. Indust. Organ. 2, 32.  
Anthropology. 2, 32.  
\*Social Science. 2, 32.

## 14. FINE ARTS AND THE HISTORY OF ART.

[Including Classical Archæology. See also 3 and 13.]

## BROWN.

- WILLIAM CAREY POLAND,  
A.M., Brown, 1871; Prof. of History of Art and Director of Museum of Fine Arts. — Instr. Greek and Latin, Brown, '70-75; Berlin, Leipzig, '75-76; Asst. Prof. Gr. and Lat., Brown, '76-89; Assoc. Prof. Gr. and Cur. Mus. Class. Arch., '89-92; Director Amer. School Class. Studies, Athens, '91-92.  
Classical Archæology. 3, 34.  
History of Art. 3, 34.

## CHICAGO.

- F. B. TARBELL [see 3].  
Introduction to Classical Archæology.  
4, 12, Ja.-Mr.

- Greek Life from the Monuments.  
4, 12, A.-Ju.

## CORNELL.

*Instruction given in connection with Mus. Classical Archæol., containing casts of sculptures and various models, etc.*

- ALFRED EMERSON,  
Ph.D., Munich; Assoc. Prof. Class. Archæol., and Curator of Mus. of Casts.  
\*Class. Archæol. 2, 32.  
\*Hist. sculpt. 2, 32.  
\*Archæol. sem. 2, 32.  
Museum studies. 1, 32.

## HARVARD.

- CHARLES ELIOT NORTON,  
Litt.D., LL.D.; Prof. of the History of Art.

**Harvard — Continued.**

- \*Roman and Mediæval Art, with special study of the Development of Gothic Architecture, and of the Revival of Art in Italy in the 13th cent. 3, 31.

[\*Ancient Art.] 3, 31.

Professor Norton will assist and direct advanced students in the study of special topics in the History of the Fine Arts.

**LELAND STANFORD, JR.**

WALTER MILLER [see 3].

- \*Archæological Seminary. 1, 32.

**BOLTON C. BROWN,**

M.P., Syracuse Univ., 1889; Assoc. Prof. Drawing and Painting.—Instructor in Drawing, Cornell Univ., 1885-88.

- \*Landscape; Casts; Life work. 4, 32.  
\*Drawing from Life; Still Life in Color. 3, 32.

**ARTHUR B. CLARK,**

M.Ar., Syracuse Univ., 1891; Asst. Prof. Drawing.

- \*Scientific Perspective. 2, 18

**MICHIGAN.**

M. L. D'OOGHE [see 3].

- Greek Antiquities. 1, 17, O.-F.  
\*Hist. of Greek art. 3, 17, O.-F.

**PRINCETON.**

*Fellowship of \$500 in Archaeology.*

**ALLAN MARQUAND,**

Ph.D., Johns Hopkins, 1880; Prof. Archaeology and History of Art.—Berlin, '77-8; Johns Hopkins, '78-82; Princeton: Tutor in Latin and Lecturer on Logic, '81-2; Instr. in Hist. of Art, '82-3; Ed. *Am. Jour. of Archaeol.*—Epicurean logic, logical diagr., logical machines; hist. sculpture and painting; var. Archæol. papers.

Greek Sculpture. 2, 16, O.-Ja.

- \*Renaissance painting. 2, 16, F.-My.

**A. L. FROTHINGHAM, JR.,**

Ph.D., Leipzig, 1883; Prof. Archæol. and Hist. of Art.—Rome, '78-82; Leipzig, '83;

Johns Hopkins, '83-6; Founder and Manag. Ed. *Am. Jour. Archaeol.*—Oriental lit.; Book of Hierotheos, hist. sketch Syriac lit., Gnostic æons., etc.; bapt. of Constantine; hist. sculpt. and paint.; treas. St. Peters; var. Oriental, Early Christian, Romanesque, and Gothic archæolog. papers.

- \*Romanesque art. 2, 16, O.-Ja.

- \*Gothic art. 2, 16, F.-My.

Courses in Greek Architecture, Greek Industrial Arts, Greek Mythology in Art, also in Christian Architecture, Gothic Architecture, the subjects and symbols of Christian Art, Mediæval Industrial Arts and Renaissance Architecture and Sculpture have been given and may be given on application.

**WESTERN RESERVE.**

HAROLD N. FOWLER [see 3].

History of Ancient Art. 3, S.-Ja.

**YALE.****J. M. HOPPIN,**

LL. B., Harvard, 1842; Prof. Hist of Art.—Yale, 1840; Harvard Law School, '42; Andover Sem., '45; Berlin, '47; Pastor, 9 yrs.; Prof. Homiletics and Pastoral Theol., Yale, '61-79; Lect. on Forensic eloquence Yale Law School, '72-5.—Homiletics; Theology; Essays upon Art.

History of Art (dawn of Ch. Idea in Art; orig. Mod. Art in Italy and Eu.; Byzantine Art and Rise of Saracenic Archit.; spec. topic, Gk. Art). 1, 20.

**JOHN F. WEIR,**

N.A., M.A., Prof. Painting and Design.

Technical Course in Painting. 4, 32.  
(2 ex., each of 2 hrs.)

Course in Modelling. 4, 32. (2 ex., each of 2 hrs.)

**JOHN H. NIEMEYER,**

M.A.; Prof. of Drawing; Paris; Painter.

Course in Drawing. 4, 32. (2 ex., each of 2 hrs.)

## 15. THEORY OF MUSIC.

## HARVARD.

JOHN K. PAINE,

Mus.D.; Prof. of Music.

- \*Harmony. 3, 31.
- \*Counterpoint. 2, 31.
- \*Instrumentation. 1, 31.
- Canon and Fugue. 2, 31.
- [Free thematic music. Fugue in two voices. 2, 31.]
- \*[History of Music. 1-2, 31.]
- Seminary in Music.

## MICHIGAN.

A. A. STANLEY,

A.M.; Prof. of Music.

- \*Canon and Fugue. 2, 34.
- \*Musical Form. 2, 34.
- Free Composition. 2, 34.
- Instrumentation. 2, 34.

## PENNSYLVANIA.

H. A. CLARKE,

Mus.D.; Prof. of Music.

- \*Harmony.
- \*Counterpoint and Composition.

## YALE.

HORATIO W. PARKER,

M.A., Yale. — Boston, Munich, 1882-5; Organist, Dedham, Mass. 1880; Boston Highlands, 1886; Harlem, 1888; N. Y. City, 1889; Trinity ch., Boston, 1893-4. — Composer: concert music, songs, part songs, oratorio.

- \*Harmony. 2, 32.
- \*Counterpoint; Canon; Fugue. 2, 32.
- \*Forms. 1, 32.

SAMUEL S. SANFORD,

Organist, Pianist, Choral Director, Critic.  
Courses on Organ or Pianoforte.

## III. PURE SCIENCE.

## 16. MATHEMATICS.

## BROWN.

## NATHANIEL FRENCH DAVIS,

LL.D., Colby, 1894; Professor of Pure Mathematics.—Instr. Mathematics, Brown, '74-79; Asst. Prof., '79-89; Assoc. Prof., '89-90; Göttingen, Berlin, '92-93.

Applications of the Calculus. 3, 12, Ja.—Mr.

## HENRY PARKER MANNING,

Ph.D., Johns Hopkins, 1891; Instructor in Mathematics.—A.M., Brown, 1886; Fellow, Johns Hopkins, '90-91.

Theory of Functions. 3, 34.

Modern Algebra; Higher Plane Curves and Surfaces. 3, 34.

[Offered '95-96, in place of former.]

Theory of Functions (adv.). 1, 34.

Differential Equations. 3, 24, S.—Mr. Special courses to meet needs of graduate students

## BENJAMIN FRANKLIN CLARKE,

A.M., Brown, 1866; Prof. Mechanical Engineering.—Instructor Mathematics, Brown, '63-68; Prof. Mathem. and Civil Engineering, '68-93.—Theoretical and Experimental Mechanics.

Mechanics of Solids. 3, 34.

Mechanics of Fluids. 3, 34.

Theory of Structure. 3, 10, A.—Ju.

## OTIS EVERETT RANDALL,

A.M., Brown, 1887; Assoc. Prof. of Mechanical Drawing.—Instr. Math. and Eng., Brown, '85-91; Asst. Prof. Math. and Civil Eng., '91-92.

Shades, Shadows and Perspective. 3, 12, S.—D.

Machine Drawing. 3, 12, Ja.—Mr.

Constructive Geometry. 3, 12, S.—D.

## EDWARD CLIFTON BURNHAM,

B.S., Mass. Inst. Techn., 1890; Instr. Mechan. Drawing and Engineer.—A.B., Brown, '86.

Gearing. 3, 10, Mr.—Ju.

## ERNEST HENRY BROWNELL,

B.S., Mass. Inst. Tech.; Instructor in Civil Engineering.

Hydrographic Surveying. 3, 12, S.—D.

Hydraulics. 3, 22, Ja.—Ju.

Structures. 6, 12; 6, 12; 3, 10.

Masonry. 3, 10.

Geodesy. 1, 10.

## BRYN MAWR.

1 fellowship of \$525.

## CHARLOTTE ANGAS SCOTT,

D.Sc., London; Prof of Mathematics.—Cambridge, Eng., '80-3; Res. Lect. in Math., Girton Coll., '80-4; Lect., Newnham Coll., Cambridge, '80-3; Cubics and higher singularities, binominal equation.

Sem.: Anal. Geom. 1, 30.

High. Plane Curves. 2, 30.

\*Modern Higher Algebra. 2, 30.

Intro. to Mod. Anal. Geom. 2-3, 30.

## JAMES HARKNESS,

M.A., Cambridge and London; Assoc. Prof. Math.—Schol., Trinity Coll., Cambr., '82-8; Math. Schol., London, '87.—Theory of functions.

Differential equations (adv.). 3, 30.

Theory of Groups. 3, 30.

\*Differential equations. 3, 15; 2, 15. [Dynamics. 2, 15.]

## CALIFORNIA.

## I. STRINGHAM,

Ph.D., Johns Hopkins; Prof. Math.

Mathematical Seminary.

Absolute Geometry.

Theory of Functions of Real Variables.

## G. C. EDWARDS,

Ph.B; Assoc. Prof. Math.

Differential equations.

M. W. HASKELL,

Ph.D., Göttingen; Assoc. Prof. Math.

Theory of Substitutions.

Theory of Numbers.

A. B. PIERCE,

A.M., Harvard; Inst. Math.

Quaternions.

CHICAGO.

*Math. club and sem. of all instrs. and grad. studs. meets fortnightly.*

E. HASTINGS MOORE,

Ph.D., Yale, 1885; Prof. of Mathematics.—Yale, '83-5; Berlin, '85-6; Tutor of Math., Yale, '87-9; Northwest Univ.: Asst. Prof. Math., '89-91; Assoc. Prof. Math., '91-2.—Geometry of  $n$  dimensions; algebra; groups.

Theory of functions, complex variable. 4, 12, Jul.-S. 1894 and 1895.

Elliptic functions. 4, 12, Jul.-S. 1894.

Functions seminar. Fortnightly, Jul.-S. 1894 and 1895.

Projective geometry. 4, 12, O.-D.

Elliptic modular functions. 4, 12, O.-D.

Configurations. 4, 12, A.-Ju.

Groups. 4, 12, A.-Ju.

Linear differential equations. 4, 12, Jul.-S. 1895.

OSKAR BOLZA,

Ph.D., Göttingen, 1886; Prof. Math.—Berlin, Heidelberg, Strassburg, Göttingen; Reader in Math., Johns Hopkins, '88-9; Assoc. in Math., Clark, '89-92; Assoc. Prof. Math., Chicago, '92-93.—Hyperelliptic functions and theory of substitutions.

Theory of functions, complex variable. 4, 12, O.-D.

Quaternions. 4, 12, O.-D.

Analytic geometry of three dimensions. 4, 12, Ja.-Mr.

Theory of substitutions with applications to algeb. eqs. 4, 12, Ja.-Mr.

HEINRICH MASCHKE,

Ph.D., Göttingen, 1880; Asst. Prof. Math. and Physics.—Heidelberg, Breslau, Berlin, Göttingen; Prof. Math., gymnasium at Berlin, '80-90.—Orthogonal systems of surfaces; finite groups of linear substitutions.

Higher plane curves. 4, 12, O.-D.  
Weierstrass's theory of elliptic functions. 4, 12, Ja.-Mr.

Analytic mechanics. 4, 12, A.-Ju.

Algebraic surfaces. 4, 12, A.-Ju.

Theory of surfaces; differential geometry. 4, 12, Jul.-S. 1895.

Theory of the icosahedron. 4, 12, Jul.-S. 1895.

J. W. A. YOUNG,

Ph.D., Clark, 1892; Instructor of Math.—Berlin, '88-9; Clark, '89-92; Tutor in Math., Chicago, '92-94.—Groups.

Elements of theory of invariants, with application to higher plane curves. 4, 12, Jul.-S. 1894.

Theory of numbers. 4, 12, Jul.-S. 1894.

Theory of numbers. 4, 12, Ja.-Mr.

JAMES H. BOYD,

D.Sc., Princeton, 1892; Tutor in Math.—A.B., Princeton, '86-7; Fellow in Math., *ibidem*, '86-7; A.M., *ibidem*, '88; Göttingen, '89-90, '92-3; Prof. Math., Macalester College, '87-90, '91-2.

Differential equations. 4, 12, A.-Ju.

HARRIS HANCOCK,

A.B., Johns Hopkins, 1888; Assistant in Math.—Johns Hopkins, '88-91; Berlin, '91-2, '93-4.

Calculus of variations. 4, 12, Ja.-Mr.

CLARK.

*2 fellowships of \$600 each; 2 fellowships of \$400 each; 2 scholarships of \$200 each, and 2 scholarships of \$100 each,—all assigned to students in Mathematics.*

WILLIAM EDWARD STORY,

Ph.D., Leipzig, 1875; Prof. of Math.—Berlin, Leipzig, '71-5; Tutor in Math., Harvard, '75-6; Assoc., Asst. Prof. and Assoc. Prof. of Math., Johns Hopkins, '76-'89; Assoc. Ed. *Amer. Jour. Math.*, '78-82.—Algebraic variants and co-variants, non-Euclidean geom., analyt. geom. (esp. higher plane curves), elliptic functs.

Linear and Higher Uniform Transformations of Curves and Surfaces. 4, 18, O.-F.

Discrete and Continuous Groups. 3, 17, F.-Ju.



## Clark — Continued.

Seminary for Advanced Students.  
35, O.-Ju.  
Modern Synthetic Geometry. 2, 17,  
F.-Ju.

## HENRY TABER,

Asst. Prof. of Math.—Ph.D., Johns Hopkins, 1888; Asst. in Math., Johns Hopkins, '88-9; Docent in Math., Clark, '89-92.—Theory of Matrices.

Analytic Geometry of Conic Sections, Quadric Surfaces, and Higher Plane Curves. 3, 35, O.-Ju.

Theory of Functions of Real and Imaginary Variables and Definite Integrals. 3, 35, O.-Ju.

Seminary. 2, 35, O.-Ju.

## JOSEPH DE PEROTT,

Docent in Mathematics, Paris, Berlin, '77-80.—Theory of numbers; topology; substitutions.

Riemann's Surfaces and Abelian Integrals. 2, 17, F.-Ju.

Theory of Numbers. 2, 18, O.-F.

## COLUMBIA.

*Prof. J. H. Van Amringe, Dr. T. S. Fiske, Mr. James Macloy and Dr. C. M. Blake offer, for '94-95, the following advanced courses:*

Adv. diff. and integ. calculus. 3, 30.

Gen. diff. equations. 3, 15.

[Theory of invariants. 3, 15.]

[Theory of substitutions. 3, 15.]

Gen. theory of functions. 3, 15.

Elliptic functs. 3, 15.

Abelian functs. 3, 15.

Automorphic functs. 3, 15.

Theory of curved surfaces. 3, 15.

Continuous Transformation Groups. 3, 15.

## CORNELL.

*Any course not desired by at least 5 students may not be given.*

## J. E. OLIVER,

A. M.; Prof. of Mathematics.

Theory of functs. 3.

Theories of num. 2.

Quatern. and vector anal. 2, 20,  
Ja.-My.

Non-euclidean geom. 2.

Math. pedagogy. 1.

Math. essays and theses. 1.

Mathem. theory of electricity. 2, 32.

## L. A. WAIT,

A.B.; Prof. of Math.

Advanced Analytic geom. 2, 32.

Adv. differential and integ. calc. 2, 32.

Rational mechanics. 2, 32.

## JAMES MCMAHON,

A.M.; Asst. Prof. Math.—Trinity Coll., Dublin; Cornell; Cambridge, Eng.; Instr. in Math., Cornell, '84-90; Assoc. ed. *Ann. of Math.*—Modern algebra, higher plane curves.

Adv. analytic geometry. 2, 32.

Gen. theory of algebraic curves and surfaces. 2, 32.

Theory of quantics (Salmon and Clebsch). 2, 32.

Mathem. theory of chemical equilibrium (with Prof. Trevor). 2, 32.

## G. W. JONES,

A.M.; Asst. Prof. of Math.

Lines and surfaces of 1st and 2d orders. 3, 32.

Mod. synthetic geom., inc. projective geom. 2, 32.

Higher algebra (sem.). 2, 32.

## C. S. FOWLER,

B.S.; Instr. in Math.

\*Adv. trigonometry, inc. theory of imaginaries and hyperbolic functs. 2, 32.

Finite diffs. factorials, diff. eq., with ref. to pract. comput. 2.

Theory of prob.; least sq. and applic. 2, 12, O.-D.

## MR. SAUREL.

The potential funct. and spher. harmonics. 2, 32.

Binary quantics. 2, 32.

**HARVARD.**

*Chauncey Wright Math. prize of \$25.*

**J. M. PEIRCE,**

A.M., Harvard, 1856; Perkins Prof. Mathematics.

Quaternions, with applications to Geometry and Mechanics (second course).

[\*Quaternions, with applic. to geom. and mechan. (first course). 3, 31.]  
[Alt. with course above.]

\*Algebraic plane curves: gen. theory, esp. cubics. 3, 31.

Algebra of Logic. 2-1, 31.

Linear Associative Algebra (research). 1, 31.

[\*Gen. Theory of Curves and Surfaces (second course)].

[Given in 1895-96.]

**W. E. BYERLY,**

Ph.D., Harvard, 1873; Prof. Mathematics—Harvard, '71-73; Asst. Prof. Math., Cornell; Asst. Prof. Math., Harvard.—El. geom., diff. calculus, integ. calculus, spherical harmonics.

\*Fourier's series, spher. harmonics. 2, 31.

\*Mod. methods in geom. 3, 31.

\*Diff. and integ. calculus (adv.). 3, 31.

[Analyt. Mechanics.] [Given in '95-96.]  
Mechanics of rigid bodies. 2, 31.

**B. O. PEIRCE [see 18].**

Methods in Mathematical Physics. 3, 31.

[Hydrostatics. Hydrokinematics. Force Functions and Velocity. Potential Functions and their uses. 3, 31.]

[Alt. with course above, given in 1895-96.]  
Potential Function. 1, 31.

**W. F. OSGOOD,**

Ph.D., Erlangen, 1890; Instr. in Math.—Harvard, '86-87; Göttingen, '87-91; Erlangen, '89-90.—Symbol. notation, system of two simultaneous ternary quadrat. forms.

\*Higher algebra. 3, 31.

\*Theory of functions. 3, 31.

(Of these two, one only will be given.)

Klein's Isocahedron (research).

[Theory of Substitutions.]

**MAXIME BÔCHER,**

Ph.D., Göttingen, 1891; Asst. Professor of Math.—Göttingen, '88-91; Instructor in Math., Harv., '91-93.—Math. theory of the potential.

Theory of functions. 3, 31.

\*Theory of equations. 2, 15, F.-My.  
Curvilinear Coörd's and Lamé's Functions. 3, 31.

Theory of Functions satisfying La Place's Equation (research).

**JOHNS HOPKINS.**

SIMON NEWCOMB [see 17].

**THOMAS CRAIG,**

Ph.D., Johns Hopkins, 1876-79; Prof. Pure Mathematics.—Asso. Ed. *Am. Jour. Math.*

Theory of functions (adv.). 3, 15, O.-Ja.

Abelian functions. 3, 15, O.-Ja.

Differential equat. 3, 15, F.-My.

Elliptic functions. 3, 15, F.-My.  
Seminary. 2, 30.

**FABIAN FRANKLIN,**

Ph.D., Johns Hopkins, 1880; Prof. Math.

Theory of functions (el.). 2, 30.

Theory of invariants. 3, 30.

**A. S. CHESSIN,**

Theoretical dynamics. 3, 15, F.-My.

Partial differential equa. 3, 15, O.-Ja.

**L. S. HULBURT,**

A.M., Wisconsin, 1888.—Clark, '91-2.

Theory of plane curves. 4, 15, O.-Ja.

Surfaces and twisted curves. 2, 15, F.-My.

**LELAND STANFORD, JR.**

**R. E. ALLARDICE,**

A.M., University of Edinburgh, 1882; Prof. of Mathematics.—Baxter Scholar, '83-84; Drummond Scholar, '83-4; Asst. Prof. of Math., Univ. of Edinburgh, '83-92.—Algebra; geometry.

\*Differential equations. 3, 32

Function theory. 2, 32.

Leland Stanford, Jr. — *Continued.*

## C. N. LITTLE,

Ph.D., Yale, 1885.—Prof. of Mathematics, Yale, '79-80; '84-85; Instructor Math. and Civ. Eng., Nebraska State University, '80-84; Assoc. Prof. and Prof. Civ. Eng., Neb. Univ., '85-93. Geometry; Knots.

- \*Coördinate Geometry. 2, 32.  
Quaternions. 3, 32.

## R. L. GREEN,

A.M., Indiana Univ., '90.—Johns Hopkins Univ., '86-87; Asso. Instructor in Mathematics, Ind. Univ., '85-86; Prof. Math., Ind. Univ., '87-93.

Higher Plane Curves. 2, 32.

## R. J. ALEY,

A.M., Indiana University, 1890; Asst. Prof. Math.—Prof. Mathematics, Indiana Univ., 1891-94.

- \*Analytical Statics. 2, 32.

## MICHIGAN.

## WOOSTER W. BEMAN,

A.M., 1873; Prof. Mathematics.—Algebra; analyt. geom.; calculus.

- \*Quaternions. 3, 17, F.—Ju.  
\*Teacher's Seminary. 2, 34.  
Solid Analyt. Geom. 2, 34.  
Differential Equations. 2-3, 34.  
Mathematical reading. 3, 34.

## FRANK N. COLE,

Ph.D.; Asst. Prof. Math.—Harvard, Leipzig, Göttingen.

Theory of substitutions.  
Theory of complex numbers. 3-2, 34.

- \*Projective Geom. 3, 34.

## ALEXANDER ZIWET,

C.E.; Asst. Prof. Math.—Moscow; Polytech. School, Karlsruhe.—Co-Ed. *Bull. N. Y. Math Soc.*—Theoretical Mechanics.

Advanced Mechanics. 2-3, 34.

## JOSEPH L. MARKLEY,

Ph.D., Harvard, 1889; Instr. in Math.

- \*Modern higher algebra. 3, 17, F.—Ju.  
\*Fourier's series, spherical, cylind. and elliptical harmonics. 2, 34.

## MINNESOTA.

## JOHN F. DOWNEY,

A.B., Hilldale College, '70; M.A., Univ. of Mich.; Prof. of Math. at the Penn. State College, '75-80; since 1880, Prof. of Math. at the Univ. of Minn.

Advanced Work in Coördinate Geometry.  
Advanced Work in Differential Calculus.  
Advanced Work in Integral Calculus.  
Quaternions. Once a week throughout the year.

## PENNSYLVANIA.

*The Rogers Library of Mathematics, Astronomy, Physics, and Civil Engineering.*

## E. S. CRAWLEY,

Ph.D., U. of Penn., '92; Asst. Prof. Math.—Sub-Dean of College, Univ. of Penn.—Trigonometry; Mathematics.

Higher Plane Curves. 2, 15.

Theory of Numbers. 2, 30.

- \*Least Squares. 2, 15.  
\*History of Mathematics. 1, 30.

## G. E. FISHER,

A.B.; Asst. Prof. Math.—Cornell, U. of Penn.; Instr. Math., Cornell, '87-89.—Mathematics.

Advanced work in Analytic Geometry of two and three dimensions. 2, 30.

Advanced work in Differential and Integral Calculus. 2, 30.

Projective Geometry. 2, 30.

Quaternions. 2, 30.

Modern Higher Algebra. 2, 30.

Differential Equations. 2, 30.

Theory of Functions. 2, 30.

Seminar. 1, 30.

## J. J. SCHROATT,

Ph.D., '93, U. of Penn.; Instr. in Math.—Berlin, Riga Dorpat.—Mod. Geom.; Bessel's Functions.

Modern Geometry. 2, 30.

Theory of substitutions and applications. 2, 30.

Abelian functions.

PRINCETON.

H. B. FINE,

Ph.D., Leipzig, 1885; Prof. of Mathematics. — Princeton, '80-1; Leipzig, '84-5; Princeton: Tutor, Asst. Prof. and Prof. of Math. since '81. — Singularities of curves of double and multiple curvature; differential eq.; the number syst. of Algebra.

Differential eq. 2, 32.

Theory of numbers and higher algebra. 2, 32.

Higher metric geom. 2, 32.

H. D. THOMPSON,

D.Sc., Princeton; Ph.D., Göttingen; Prof. Math. — Princeton, '85-6; Fell., Johns Hopkins, '86-7; Göttingen, '87-8, '90. — Zero-value of ellipt. theta-functions; pencils of conics; hyperelliptic functs. Euclid.

\*Higher plane curves. 2, 32.

Analyt. geom. of 3 dims. 2, 32.

Elliptic functions. 2, 32.

W. F. MAGIE [see 18].

\*Analyt. mechanics. 2, 32.

VANDERBILT.

W. J. VAUGHN,

M.A., LL.D.; Prof. Mathematics.

\*Solid Geometry. 1, 16.

\*Theory of Equations. 2, 16.

\*Differential Equations. 3, 16.

Theory of Groups. 3, 16.

Theory of Numbers. 3, 16.

WESTERN RESERVE.

C. J. SMITH,

A.M., West. Res. Coll., 1873; Prof. Mathematics. — Prof. Mathematics, West. Res. Coll., 1870-82; Adelbert, '82.

\*Differential and Integral Calculus. 3, S.-Ju.

\*Analytic Geometry. 3, F.-Ju.

\*Theory of Equations. 3, F.-Ju.

A. H. PALMIÉ,

Ph.B., Cornell, '90; Assoc. Prof. Mathematics. — Fellow in Math., Cornell, '90-91; Instructor in Math. and German, Coll. for Training of Teachers, N. Y. City, '91-92; Instructor in Mathematics, Coll. for Women, W. R. U., '92.

Higher Plane Curves. 3, S.-Ja.

Theory of Functions. 3, S.-Ja.

Quaternions. 3, F.-Ju.

\*Differential Equations. 3, F.-Ju.

\*Projective Geometry. 3, F.-Ju.

WISCONSIN.

CHARLES A. VAN VELZER,

Ph.D., Johns Hopkins; Prof. of Mathematics.

Modern Algebra. 2, 36.

Analytic Geometry of two dimensions. 3, 36.

Analytic Geometry of three dimensions. 3, 36.

CHARLES S. SLICHTER,

M.S.; Professor of Applied Mathematics.

Newtonian potential functions. 2, 36.

Partial differential equations of math. physics. 2, 36.

Theoretical hydrodynamics. 2, 36.

ERNEST B. SKINNER,

A.B.; Instructor in Mathematics.

Quaternions. 2, 36.

EDWARD B. VAN VLECK,

Ph.D.; Instructor in Mathematics.

Projective Geometry. 2, 36.

YALE.

*Math. Club holds fortnightly meetings for papers and discussion. Hillhouse Math. Coll., 3000 vols.*

HUBERT A. NEWTON,

LL.D., Michigan, 1868; Prof. of Mathematics. — Meteors, comets, temperature, metric system, transcendental curves.

Analytical statics.

\*Integral calculus and mechanics. 3, 32.

\*Shooting stars and meteors. 1, 32.

J. E. CLARK,

A.M.; Prof. of Mathematics.

Determinants and Differential Equations. 2, 32.

J. W. GIBBS [see also 18],

Ph.D., Yale, 1863; Prof. Mathematical Physics. — Thermodynamics; theory of light; Vector analysis.

## Yale—Continued.

Vector Analysis (el.). 2, 12, O.-D.  
 Vector Analysis (adv.). 2, 20, J.-Ju.  
 Miscellaneous Applications of Vector Analysis. 1, 32.  
 Multiple Algebra. 1, 32.

[Given 1895-96.]

## C. B. RICHARDS,

M.A., Yale, 1884; Prof. Mechan. Engineer.—Exper. on Resist. of stones to crushing; Warming and vent. of Houses; Revis. of def. in Mech. and Eng. in *Webster's Internat. Dict.*; Gen. Rev. of 6th group, and Rep. on Class 32; 240 pp. in Rep. U. S. commis. to Univ. Expos. of 1889, Paris.

Mechan. Engineering.  
 Applied Mechanics.  
 Machine Design.  
 Thermodynamics.

## A. J. DuBOIS,

C. E., 1870; Ph.D., 1872; Prof. Civil Engineer.—Formerly Prof. Civ. and Mech. Engineer., Lehigh Univ.—Elements of Grap.

Statics, Hydraulics, Hyd. motor and Steam Engine.

Civil Engineering.  
 Mechanics applied to Engineering.  
 Construction and Design.

WM. BEEBE [see 17].

Surveying. 3, 16, F.—Ju.

## A. W. PHILLIPS,

Ph.D., Yale, 1877; Prof. Math.—Orbits; Math. curves and their graphic representation, esp. by machines.

Curves and Cones. 1, 32.  
 \*Analyt. Geom. 2, 32.

## IRVING FISHER,

Ph.D., Yale, 1891; Asst. Prof. Math.—Math. Econ.

Courses not yet announced.

## JOSEPH BOWDEN,

A.B., Yale, 1891; Tutor in Math.

\*Algebra. 2, 32.

## 17. ASTRONOMY.

## BROWN.

## WINSLOW UPTON,

A.M., Univ. of Cincinnati, 1877; Professor of Astronomy and Director of Ladd Observatory.—Asst., Harvard Coll. Observatory, '77-79; Asst. Engineer, U. S. Lake Survey, '79-80; Computer, U. S. Naval Observ., '80-'81; computer and Junior Prof. of Meteorol., U. S. Signal Office, '81-83.—Graduate Instruction at Ladd Observ.

Advanced Practical Astronomy. 3,  
 34.  
 Individual courses as desired.

## CALIFORNIA.

*The Lick Observatory is a department of the University, and the great telescope affords unrivalled facilities for advanced astronomical work. For less mature graduate students, the following courses are given at the Observatory at Berkeley:*

## A. O. LEUSCHNER,

A.B., Michigan; Asst. Prof. Math.

Practice in Observing.  
 History of Astronomy.  
 Method of Least Squares.  
 Mechanical Quadratures.  
 Interpolation and use of Tables.

## CHICAGO.

## S. W. BURNHAM,

Prof. of Practical Astronomy: A.M., Yale Univ., 1878.—Observer of the Dearborn Observatory, Chicago, 1877-81, 1882-4; Observer at the Washburn Observatory, Madison, Wis., 1881-2; Astronomer at the Lick Observatory, 1883-92; Associate Editor of *Astronomy and Astro-Physics*.—19 catalogues of new double-stars.

Micrometrical measures of Double-stars, and Nebulae.  
 Orbits of Binary Stars.

## GEORGE E. HALE,

Associate Prof. of Astro-Physics, and Director of the Observatory; S.B., Massachusetts Institute of Technology, 1890.—Di-

rector of the Kenwood Astro-Physical Observatory, 1890; Prof. of Astro-Physics in Beloit College, 1891; Lecturer in Astro-Physics at Northwestern Univ., 1891; Editor of *Astronomy and Astro-Physics*.—Solar Photography, Solar Spectra, Solar Faculae, Spectra of the Elements, the Spectro Heliograph.

Astronomical Photography. 4, 12, O.—D.

Solo Physics. 4, 24, Ja.—Ju.

Stellar Spectroscopy. 4, 12, O.—D.

Astro-Physical Research. 4, 48, Jul.—Ju.

T. J. J. SEE,

Ph.D., Berlin, 1892; Assistant in Astronomy.—Docent in Astronomy, the Univ. of Chicago, 1892-3.—Development of Double-stars; law of attraction in the stellar systems; ancient color of Sirius; orbits of double-stars; secular perturbations of Uranus.

Gauss's Method of Computing Secular Perturbations. 4, 12, Jul.—S.

Theory of Attractions and Figures of the Heavenly Bodies. 4, 12, Jul.—S. Math. Theory of Tides. 4, 24, O.—Mr.

Tidal Friction and Cosmogony. 4, 12, A.—Ju.

Seminar. 4, 48, Jul.—Ju.

KURT LAVES,

Ph.D., Univ. of Berlin, 1891; Docent in Astronomy, Univ. of Chicago, 1893-4; Reader in Astronomy.—The Mass of Moon; the Lunar Equation; the principal term of the Nutation.

Latitude and Longitude. 4, 12, Jul.—S.

Spher. and Prac. Astronomy. 4, 12, O.—D.

Partial Diff. Equations. 4, 12, O.—D. Dynamics of a System. 4, 12, Ja.—Mr.

Spherical Astronomy. 4, 12, Ja.—Mr. Special Perturbations. 4, 12, A.—Ju.

Rotating Body. 4, 12, A.—Ju.

Seminar. 2, 48, Jul.—Ju.

COLUMBIA.

*Astron. obs. contains 46 in. transit; combined zenith and transit instrum.; equatorially mounted refractor, 13 in. ap., with spectro-scope; diffrac. spectros. with grating; var. instruments for photographic work.*

JOHN K. REES,

A.M.; E.M., Columbia, 1875; Prof. of Astronomy and Dir. of Observatory.—Asst. Math., Columbia, '73-76; Prof. Astr., Washington U., '76-81; Prof. Pract. Astron. and Geodesy, Columbia, '81-92; Ed. *School of Mines Quarterly*, '82-88.—Solar eclipses, comets and meteors, Rutherford reductions.

Adv. Sph. and Pract. Astron. (with Prof. Jacoby.) 2 h. lect. and 4 h. obs. work for 2 yrs.

HAROLD JACOBY,

A.B.; Instr. in Astron.—Asst. Astr. U. S. Eclipse Exped. to W. Africa, '89-90; Ed. *Bull. N. Y. Math. Soc.*—Astron. photog.; star clusters, stellar parallax.

Theoretical Astron.

Thr. and computations. 2 yrs.

Theory and Methods of Reduction of Photographic Star Plates. 1 h. for 2 yrs.

CORNELL.

J. E. OLIVER [see 16].

Celestial Mechanics. 2, 32, or 64.

W. R. SHOEMAKER,

B.S.; Instr. in Math.

Desc. and theoret. ast. 2, 32.

Phys. and math. ast. 2, 32.

E. A. FUERTERS.

Spherical astronomy. Observations, 2, 12.

HARVARD.

*The Astronom. Obs., founded for scientific research, is equipped with instruments of the first class, and with a library of over 14,000 works, and has funds for maintenance, increase, and publication. In the Henry Draper memorial dept. an extensive study of spectra and other phys. props. of stars is carried on. Boyden fund sustains observations at great elevation. Photographic study of stars especially provided for. Facilities freely offered to astronomers; also sometimes to special students in astron., who should apply to E. C. Pickering, Director.*

JOHNS HOPKINS.

*The work of the department is conducted on plans outlined by Prof. Simon Newcomb, who acts as general adviser.*

**Johns Hopkins—Continued.****SIMON NEWCOMB,**

Ph.D., hon., Leyden, 1875.—Heidelberg, '86; LL.D., Yale, '75; Harvard, '84; Columbia, '87; Edinburgh, '91; D.Sc., Dublin; Prof. Math. and Astron.; Sen. Prof. Math., U. S. Navy; Supt. Am. Ephemerid. and Naut. Almanac; Ed. *Am. Jour. Math.*

**C. L. POOR,**

Ph.D., Johns Hopkins, 1892; Assoc. in Astron.

Theory and use of astron. instrum. 3, 15, O.-Ja.  
Adv. Theoret. astron. 3, 15, F.-My.  
Theoret. and prac. astron. 2, 30.  
Astron. seminary.  
Prac. work with instrum. Daily.

**A. S. CHESIN,**

Ph.D.; Lecturer on Math. and Ast.  
Celestial mechanics. 3, 30.

**LELAND STANFORD, JR.**

*The graduate courses of this University lead to graduate work and research at the Lick Observatory at Mt. Hamilton, Prof. E. S. Holden, Director. This observatory is thoroughly equipped with numerous and powerful instruments of the best modern construction and has a fine astronomical library. It is devoted to scientific research.*

**W. J. HUSSEY,**

B.S., C.E., Michigan, 1889; Assoc. Prof. of Astronomy.—Nautical Almanac Office, 1889; Acting Director, Detroit Observatory, 1891-92; Lick Observatory, 1892-93.—Logarithms; Theories of Planetary Motions; Mars.

- \*Spherical astronomy. 2, 15.
- \*Method of least squares and empirical curves. 2, 15.
- \*Eclipses and occultations, theory and computations. 2, 19.
- Orbits of double stars, graphical and analytical methods. 2, 19.
- Theoretical astronomy, orbits of comets and planets, ephemerides and special perturbations. 5, 34.

**MICHIGAN.**

*"Detroit" Observ., provided with Fitz 13 in. refract. telescope, very valuable merid. circle; sid. clock. Special observ. for instruction.*

**ASAPH HALL, JR.,**

Ph.D., Yale, 1889; Prof. Astron. and Dis. Observ.—Yale, '85-90; Asst. Naval Obs., '82-85; Asst. Astron., Yale Obs., '85-89; Asst. Astron., Naval Obs., '89-92.—Observations of satellites and discussion of observations.

- \*Theoretical astron. 5, 34.
- Math. theory of planetary motions. 2, 17, O.-F.
- \*Use of instruments. 17, O.-F.

**SIDNEY D. TOWNLEY,**

M.S.; Instr. in Astron.

- \*Least squares and empirical curves. 3, 34.
- \*Spherical astron. 3, 34.

**MINNESOTA.****FRANCIS P. LEAVENWORTH,**

M.A., Univ. of Virginia; Asst. Prof. of Ast.—Indiana State Univ.; Cincinnati Univ.; Director of Observatory and Prof. of Ast. at Haverford College.—Articles in astronomical magazines.

Practical Astronomy. 4, 13.  
Orbit work.

**PRINCETON.**

*Halstead obs. appropriated to scientific work, esp. in astronom.-physics. Equatorial 23 in. ap. made by Clark. Highest power spectroscope fitted for visual and photographic work. Obs. of instruct. devoted to use of students contains 9½ in. ap. Clark equat., besides full complement of other instruments.*

**C. A. YOUNG,**

Ph.D., LL.D.; Prof. of Astronomy.

Theoret. astron. 1, 32 (with Prof. Reed).

**TAYLOR REED,**

A.M.; Asst. Prof. Astron.

Pract. Astron. 2, 32.

**VANDERBILT.****L. C. GARLAND,**

A.M., LL.D.

- \*Descriptive Astronomy. 4, 16.

C. L. THORNBURG,  
C.E., '83; Ph.D., '84, Vanderbilt.  
Practical Astronomy. 3, 32.  
Observatory Practice. 6, 32.

Graduate students will be received as assistants at the Washburn Observatory, and offered facilities for conducting independent investigations.

WISCONSIN.

GEORGE C. COMSTOCK,  
Ph.B., Michigan; Professor of Astronomy and Director of the Washburn Observatory.  
Observatory work and methods. 10,  
10, A.-Ju.  
Theoretical Astronomy. S.-Ju.

YALE.

WILLIAM BEEBE,  
A.B., 1873; Asst. Prof. Math. and Astron.—  
Comets' orbits; graphic algebra; mechanics.  
\*Descriptive Astronomy. 3, 16, O.-F.  
\*Practical Astronomy (observ. work).  
1, 32.

18. PHYSICS.

[See also 16 and 17.]

BROWN.

ELI WHITNEY BLAKE,  
A.M., Univ. of Vermont, 1869; Hazard  
Prof. of Physics.—A.B., Yale, '57; Yale,  
'59; Heidelberg, Marburg, Berlin, '62-65;  
Prof. Chem., Univ. of Vermont, '67-68; Prof.  
Physics, Cornell, '68-70.  
Photography. 1, 10, A.-Ju.  
Laboratory. 3 (6), 24, S.-Mr.

ALBERT DE F. PALMER,  
B.P., Brown, 1891; Instructor in Physics.—  
Johns Hopkins, '91-93.  
Dynamics. 3, 12, S.-D.  
Thermodynam. 3, 12, Ja.-Mr.

BRYN MAWR.

A. S. MACKENZIE,  
A.R.; Assoc. in Physics.—Johns Hopkins,  
'89-91.  
[Theory of elec. and magnet. 2, 30.]  
[Theory of wave motion. 3, 15, F.-  
My.]  
Physical optics. 3, 30.  
Elec. and magnet. 3, 30.

DR. BUCKINGHAM.  
Thermodynamics. 2, 30.  
Theory of solutions. 2, 15, F.-My.

CALIFORNIA.

F. SLATE,  
B.S., Brooklyn Polytechnic; Prof. Physics.  
Dynamics of Rotation. Stresses and  
Strains in Elastic Solids.  
Historical Development of Physical  
Theories.  
Analytic Mechanics.

H. WHITING,  
Ph.D., Harvard; Assoc. Prof. Physics.  
Special Research in Color and Light.  
Lect. and Lab. Exercises in Sound.

W. J. RAYMOND,  
B.S.; Inst. Physics.  
Absolute Electrical Measurements.  
Harmonic motion.

F. G. HESSE,  
Grad. Gewerbe Institut., Treves; Prof.  
Mechan. Engin.  
Hydrodynamics.  
Hydraulics and Hydraulic Machinery.  
Thermodynamics.  
Dynamics of Heat Engin.  
Mechanical Laboratory.

C. L. CORY,  
M.M.E., Cornell; Assoc. Prof. Mechan.  
Engin.  
Electrical Engineering.  
Problems in Electricity.



## CHICAGO.

## A. A. MICHELSON,

Ph.D., hon., W. Reserve, '86; Stevens Inst., '87; Head Prof. Physics.—Instr. Phys., U.S. Naval Acad., '75-9; Prof. Physics, Case School, '83-9; Prof. Physics, '89-92.

Research course. 2, 36, O.-Ju.

Lects. in theoret. physics. L 10-18, 36, O.-Ju.

## CLARK.

*Fellowships: 2 of \$600; 2 of \$400. Scholarships: 2 of \$200; 2 of \$100. Special attention paid to each student. Research under personal direction of instructor. Laboratory open daily from 8 to 6.*

## ARTHUR G. WEBSTER,

Ph.D.; Asst. Prof. Physics.—A.B., Harvard, 1885; Instructor in Math., Harvard, 1885-6; Parker Fellow, 1886-9; Berlin, Paris, Stockholm, 1886-90; Ph.D., Berlin, 1890.

Dynamics. General Methods, Canonical Equations, Systems of Particles, Rigid Bodies. 40 L.

Electricity. 30 L.

Hydrodynamics. 20 L.

Potential. Electricity and Magnetism. 80 L.

## COLUMBIA.

*One fellowship of \$648 in Physics. The instructors of this dept. offered in 92-3 24 lab. courses in electricity, light, heat, and acoustics in addition to the following:*

## WILLIAM HALLOCK,

Ph.D., Würzburg, 1881; Adj. Prof. Physics.—Asst., Phys. Inst., Würzburg, '81-2; Physicist, U. S. Geol. Survey, '82-91; Sr. asst. Astrophys. Obs., Smithsonian, '91-2; Prof. Physics, Columbian U., '84-6. — Indices of refraction, electric polariz., flow of solids, chem. action bet. solids, alloy, thermo-elec. of high temp. geysers, thermal expan. rocks, spec. gravs.

Electricity; exact phys. measurements. 2, I 8, 30.

Theoretical comparison of electr. methods. Undulat. theory of Light. 2, 30.

## OGDEN N. ROOD,

A.M.; Prof. of Physics.

Light; heat. 3, L 4, 30.

Sound; electricity. 2, L 6, 30.

## H. CUSHMAN,

A.B.; Instr. in Physics.

Precision of Measurements. 2, F.-My.

## Laboratory Courses.

PROFESSORS ROOD and HALLOCK, MR. CUSHMAN, MR. GORDON, and MR. PARKER.

## Minor Courses, First Year.

Electromotive force of Standard and Constant Cells.

Study of Strength of Electric Currents.

Study of Elasticity of Solid Bodies. Colorimetry, and Absorption Spectra. Photometry.

## Minor Courses, Second Year.

Calibration of Wheatstone Bridges.

Hypsometry.

Determination of Index of Refraction by Special Methods.

Quantitative Examination of the Discharge of the Induction Coil.

Viscosity of Solids.

## Major Courses, First Year.

Galvanometer Construction for Maximum Efficiency.

Advanced Course in Spectrometry.

Ballistic-galvanometer Work.

Calorimetry.

Radiant Heat.

Interference of Light.

Polarized Light.

Acoustic Measurements.

Thermo-electricity.

Electrical Conduction.

Electrical Insulation.

## M. I. PUPIN,

Ph.D.; Adjunct Prof. of Mechanics.

Thermodynamics. 3, O.-Ja.

Theoret. Elect. Engineering (el.). 3, O.-Ja.

Theory of Direct-Current Dynamo. 3, F.-My.

Theory of Alternators and Transformers. 3, O.-Ja.

Theory of Variable Currents. 3, F.-My.

Maxwell's Theory of Electricity and Magnetism. 2, 30.

Theory of Bessel's Functions and Spherical Harmonics. 1, 30.

Electromagnetic Theory of Light. 3, O.-Ja.

Advanced Thermodynamics. 2, 30.

Advanced Theoretical Electrical Engineering. 3, F.-My.

K. S. WOODWARD,

C.E., Ph.D.; Professor of Mechanics.

Elem. Thermodynamics. 2, O.-Ja.

Adv. Theoret. Mech. 2, 30.

Potential Function. 2, 30.

Elasticity. 2, 30.

J. C. PFISTER,

A.B.; Tutor in Mechanics.

Theoret. Mech. (el.). 2, 30.

### CORNELL.

*Franklin Hall devoted exclusively to Physics affords complete arrangements for exper. demonstrs. and adv. work.*

EDWARD L. NICHOLS,

Ph.D., Göttingen, 1879; Prof. of Physics. — Leipzig, '75-6; Berlin, '76-8; Göttingen, '78-9; Johns Hopkins, '79-80; Prof. Phys. and Astron., U. of Kansas, '83-7; Ed. *Physical Review*. — Experimental Physics.

Absent, 1894-95.

E. A. MERRITT,

Asst. Prof. of Physics.

Abs. measurements in electr. and magnet. 3, lab. work, 32.

Thermometry and calorimet. 3, lab., 32.

Adv. spectroscopy. 3, lab., 32.

G. S. MOLER,

A.B.; Asst. Prof. Physics.

Adv. photography, esp. its app. to research. 2, 32.

FREDERICK BEDELL,

Ph.D.; Asst. Prof. in Physics.

Theory alt. currents. 2, 20, Ja.-My.

Theory electric. and magnet. 2, 32.

F. J. ROGERS,

B.S.; Instr. Physics.

Thermodynamics. 2, 32.

C. P. MATTHEWS,

M.E.; Instr. in Physics.

Theory of dynamo and motor. 2, 20, Ja.-My.

J. S. SHEARER,

B.S.; Instr. in Physics.

Theory of light. 2, 32.

### HARVARD.

*The Jefferson Physical Lab. is devoted to instruct. and research in Physics. Isolated tower upon an independent foundation, for investigations requiring great stability or height. Non-magnetic, constant temp. and photogr. rooms. Tyndall fell. of \$500.*

JOHN TROWBRIDGE,

S.D.; Prof. of Physics and Dir. Jeff. Phys. Laboratory.

Spectrum anal. Research. 12, 31.

\*Gen. treatment optical phenomena. 1, lab., 31.

\*Electro-dynamics, magnetism, electro-magnetism. 2, lab., 31.

Electro-dynamics, with special reference to periodic currents of electricity. 9, 31, lab.

B. O. PEIRCE,

Ph.D., Leipzig, 1879; Hollis Prof. Math. and Nat. Philosophy. — Leipzig, '77-9; Berlin, '79-80.

Research in mathemat. physics.

Math. theory of electrostatics and electrokinematics.

\*Electrostat., electrokinemat., electro-magnetism (part). 1, L 6-8, 31.

E. H. HALL,

Ph.D., Johns Hopkins, 1881; Asst. Prof. Physics. — Johns Hopkins, '77-81. — Effect of magnetic force on the equipotential lines of an elec. current ("Hall effect"); thermal conductiv. nickel and iron; cylinder condensat. in steam engines.

Research in electro-magnetism and heat conduction.

Math. theory magnetism.

## Harvard — Continued.

- \*El. Thermodynamics. 2, 16, O.-Ja.
- \*Thermodynamic Potential. 2, 16, F.-Ju.

WALLACE C. SABINE,

A.M.; Instructor in Physics.

- \*Light and Heat. 2, 6-8, lab., 31.

## JOHNS HOPKINS.

*Special physical building, with constant temp., non-magnetic, and engine rooms, and those for optical work. Lab. exp. furnished for work in electric, magnet., light. Weekly meetings to discuss journals.*

H. A. ROWLAND,

Ph.D., hon., Johns Hopkins, 1880; Prof. Physics and Dir. Phys. Lab.—Asst. Prof. Rensselaer Polytech., '72-5.

Lectures on Elec. and Magnetism. 4, 30.

J. S. AMES,

Ph.D., Johns Hopkins, 1890; Assoc. Prof. of Physics.

Physical Seminary. 1, 30.

Lectures on Theoret. Mechanics. 2, 15, O.-Ja.

Lectures on Hydrodynamics. 2, 15, F.-My.

Original work in Physics is carried on in the laboratory under the direction of the instructors.

[Dr. Duncan]:

Applied Electricity. 3, 30.

[Mr. Hering]:

Electrical Measurements. 1, 30.

[Mr. Geer]:

Machine Design. 2, 15, O.-Ja.

Mechan. drawing. 6, 30, in 1st yr.; 3, 30, in 2d yr.

The Electrical Seminary and Laboratory work are directed by Prof. Rowland, Dr. Duncan, Messrs. Hering and Geer.

The work in applied electricity forms a two years' course.

LOUIS DUNCAN,

Assoc. Prof. Elec.; Ph.D., Johns Hopkins, 1885.

Applied Elec. 2, 30.

Sem. (with Prof. Rowland). 1, 30.

## LELAND STANFORD, JR.

FERNANDO SANFORD,

M.S., Carthage College, 1882; Prof. of Physics, Univ. of Berlin, 1886-88; Prof. Physical Science, Lake Forest Univ., 1890-91.—Conductivity of Copper Wire in various Dielectrics, etc.

\*Chemical Physics. 2, 32.

\*General Physics. 3, 32.  
Orig. Probs. in Laboratory.

ALBERT P. CARMAN,

D.Sc., Princeton, 1886.—Prof. Theoretical Physics, Univ. of Berlin, 1887-89; Prof. Physics and Electricity, Purdue Univ., 1889-92.

\*Elec. and Magnetic Meas. 3, 32.

\*Mathematical Physics. 2, 32.

\*Periodic Currents. 2, 14.

MERRITT E. TAYLOR,

M.S., Northwestern Univ., 1884; Asst. Prof. of Physics, Berlin, Zürich, Johns Hopkins, 1886-89; Electrician, Incandescent Lamp Co., Chicago, 1889-92.

\*Elec. and Magnetic Meas. 3, 32.

## MICHIGAN.

HENRY S. CARHART,

LL.D.; Prof. of Physics and Dir. Phys. Lab.

\*Dynamo-electric Machinery. 3, 17, O.-F.

\*Alternate Current Transformer. 2, 17, O.-F.

Theory of Heat: Preston. 3, 17, O.-F.

\*Electrical units and measurements. 2, L 3, 17, O.-F.

GEORGE W. PATTERSON,

A.M., S.B.; Asst. Prof. of Physics.

\*Math. Electricity: Emtage. 3, 17, F.-Ju.

\*Advanced Photometry. 2, 17, F.-Ju.  
Electricity and magnetism: Mascart and Joubert. 2, 17, O.-F.

JOHN O. REED,

Ph.M.; Asst. Prof. of Physics.

Theory of light. 2, L 2, 17, F.-Ju.

KARL E. GUTHE,  
Ph.D., Marburg.

\*Adv. I.ab. work in Elect. and Mag.  
17, F.-Ju.

# MINNESOTA.

FREDERICK S. JONES,

Yale, '84. — Two years of grad. study in Germany (Royal Polytechnic Institute and University of Berlin); Prof. of Physics, since '85.

Advanced Physics; special problems with experimental investigations.  
Indiv. research guided.

# PENNSYLVANIA.

1 Fellowship, \$600.

G. F. BARKER,

M.D., Alb. Med. Coll., 1863; Prof. of Physics, Prof. Physiol. Chem., Yale, '66-73; Ed. *Four. Franklin Inst.*, '73-5; Asso. Ed. *Am. Jour. Sci.*, since '77. — Text-books in Chem. and Physics and various papers on Physics, Chem. and Elec.

Theory and Practice of Spectroscopy.  
2, 15.

Sound and Light. 2, 15.  
Electricity and Magnetics. 2, 15.  
Theory of Potentials. 1, 15.  
Physical Investigations.

A. W. GOODSPEED,

Ph.D., Univ. of Penna., '90; Asst. Prof. Physics.—Harvard; U. of Penna.

Theoretical Dynamics. 2, 30.  
Thermodynamics. 1, 15.  
Absolute Physical Measurements. 6, 30 (with Asst. Prof. Goodspeed).

# PRINCETON.

C. F. BRACKETT,

M.D., LL.D.; Henry Prof. Physics.  
Math. theory electric. and gen. electric. 8, 32.  
Theory of electric. 4, 16.  
Also 9 other courses of a more technical nature.

W. F. MAGIE,

Ph.D., Berlin, 1885; Prof. of Physics.—Princeton, '79-84; Berlin, '84-5; Princeton: Asst., '79-82; Instr. in Physics, '82-5;

Asst. Prof. Physics, '85-90.—Electrical discharge, atmospheric electric, surface tension of liquids, theory of temp.

\*Theory of heat. 2, 16, F.-My.  
\*Theory electric (el.). 2, 16, O.-Ja.  
Lab. practice. L, indef. 32.  
Math. physics. L, indef. 32.

# VANDERBILT.

JOHN DANIEL,

A.M., '84, Univ. of Ala.

\*Electricity and Magnetism. 4, 16.  
Electricity and Magnetism. 3, 32.  
Experimental Electricity. 6, 32.

# WESTERN RESERVE.

F. P. WHITMAN,

A.M., Brown Univ., 1877; Prof. Physics and Astronomy.—Johns Hopkins Univ., '79-80; Prof. of Physics, Rensselaer Polytechnic Inst., 1880-5; Adelbert Coll., 1885.

\*Electrical Measurements. 1, 6, lab., S.-Ju.

# WISCONSIN.

BENJAMIN W. SNOW,

Ph.D., Berlin; Professor of Physics.

Adv. course in spectroscopy and spectrophotometry. S.-Ju.  
Direction of investigation.

LOUIS W. AUSTIN,

Ph.D., Strassburg; Instr. in Physics.

Introd. to the study of math. physics  
2, 36.

JOHN E. DAVIES,

M.D., LL.D.; Prof. of Math. Physics.

Math. theory of sound. 3, 36.  
Math. Physics (special problems).  
S.-Ju.

# YALE.

*Sloane Phys. Lab., spec. devoted to invest. and research in Physics. Rooms for optical and photographic work, esp. in spectrum. Engine room: dynamos and apparatus for electric and magnetic work. Provision for gen. experimental work and research in Physics.*

## Yale — Continued.

J. W. GIBBS [see 16].

Electro-magnetic Theory of Light.  
2, 32.Dynamics and Thermodynamics.  
1, 32.

A. W. WRIGHT,

Ph.D., Yale, 1861; Prof. Exper. Physics,  
in charge Sloane Phys. Lab.—Formerly  
Prof. Nat. Phil. and Chem., Williams Coll.  
—Polarization and Spectrum of Zodiacallight, comets, sun's corona; gases in me-  
teorites; electric deposit. of metals; ozone.\*Lab. course in Physics (el.). L 2, 32.  
Lab. course in Physics (adv. and  
research).

C. S. HASTINGS,

Ph.D., Yale, 1873; Prof. Physics.—For-  
merly Assoc. Prof. Physics, Johns Hopkins.  
—Refraction of light; objectives, esp. tele-  
scopic; composit of the sun.Detailed treatment of some dept. of  
Physics with Lab.

## 19. CHEMISTRY.

[For Mineralogy, see under 21.]

## BROWN.

JOHN HOWARD APPLETON,

A.M., Brown, 1869; Newport Rogers  
Professor of Chemistry.—Instr. Chemistry,  
Brown, '63-68; England, France, Germany,  
'70-72; Mem. Adv. Council Am. Chem.  
Soc.—Series Chem. Text-books: The  
Young Chemist; Qual. Analysis; Quant.  
Analysis; Chem. Philosophy; Beginners'  
Handbook Chem.; Metals of Chem.; Car-  
bon Compounds.

Quantitative Anal. 6 (12), 34.

Organic Chemistry. 6 (12), 34.

Assaying. 6 (12), 22, Ja.—Ju.

Medical Chemistry. 6 (12), 22, Ja.  
—Ju.

Agric. Chem. 6 (12), 22, Ja.—Ju.

Scouring and Dyeing of Wool. 6,  
(12), 10, A.—Ju.

## BRYN MAWR.

1 Fellowship of \$525, open to graduate stu-  
dents in Chemistry.

E. H. KEISER,

Ph.D., Johns Hopkins, 1884; Prof. of  
Chemistry.—Johns Hopkins, '81-4; Frei-  
burg, '84; Göttingen, '87; Asst. in Chem-  
istry, Johns Hopkins, '84-5.—Atomic  
weights, benzene deriv., analyt. chem.

Organic chem. (adv.). 1, 30.

Chem. seminary. 1, 30.

Journal meeting. 1, 30 (with Dr.  
Kohler).

DR. KOHLER.

Physical chem. 1, through part of  
year.

## CALIFORNIA.

W. B. RISING,

Ph.D., Heidelberg; Prof. Chem.

E. O'NEILL,

Ph.B. Asst.; Prof. Organic and Phys. Chem.

Courses in Analytical, Inorganic,  
Organic, and Technical Chem. and  
Sanitary Examinations and food  
Analyses.

E. W. HILGARD,

Ph.D., Heidelberg; LL.D., Mississippi,  
Columbia, Michigan. Prof. Agricult. and  
Agricult. Chem.

Chemistry and Physics of Soils.

## CHICAGO.

J. U. NEF,

Ph.D., München, 1886; Prof. of Chemistry.  
—München, '84-7; Prof. Chem., Purdue  
Univ., '87-9; Asst. Prof. Chem. and acting  
head of Chem. Dept., Clark, '89-92.—Organ.  
chem.; tautomeric comps.; constitut. of  
benzo-quinone, acetacetic ether, bivalent  
carbon.

Analyt. chem. Lect., 2, 36, O.—Ju.

Organ. chem. 4, 30, O.—My.

Spec. chaps. in org. chem. 2, 6,  
Au.—S.Organ. preparations. L 10-20, 30,  
O.—My.Research in org. chem. L 30-40,  
36, Au.—My.

Journal meetings. 2, 30, O.—Mr.

## E. A. SCHNEIDER,

Ph.D., München, 1882; Asst. Prof. Analyt. Chem.—Chemist, U. S. Geol. Surv., '86-92.

Special Chapters of Inorganic Chemistry. 2, 12, Jul.-S.

Adv. inorg. work. L 10-20, 12, Jul.-S.

Research in inorg. chem. L 30-40, 48.

## FELIX LENGFELD,

Ph.D., Johns Hopkins, 1888; instructor in Chem.—U. of Cal., '84-6; Johns Hopkins, '86-8; Zürich, '88-9; Liège, '89; München, '89-90; Prof. Chem., So. Dakota Sch. of Mines, '90-1; Instr. of Chem., U. of Cal., '91-2.—Relative stabil. of alk. bromides; addit. of hydrogen to naphthalene and quino-line derivs.; derivs. of nitrogen halogen comp.

Adv. inorg. chem. 2, 36, A.-Ju.

Adv. inorg. prep. L 10-20, 36, O.-Ju.

Theoret. chem. 2, 30, O.-My.

Physico-chem. methods. L 5, 12, Ja.-Mr.

Research; inorg. chem. L 30-40, 36, O.-Ju.

## JULIUS STIEGLITZ,

Ph.D., Berlin; Instructor in Chem.—Berlin, '86-9; Göttingen, '88; Clark, '90.—Condensations of amidoximes; benzo quinone carboxylic acids; quantitative method for determining alkaloids in extracts; derivatives of nitrogen halid comp.

The carbohydrates and complex hydrocarbons. 2, 12, O.-D.

Adv. qualitat. spect. anal. Lects. and lab., 3-5, 12, A.-Ju.

Org. nitrogen derivs. 2, 12, Ja.-Mr.

Research; org. chem. L 30-40, 48.

## RICHARD T. CURTISS,

Ph.D., Würzburg, 1892; Docent in Chem.—Student at the College de France, '92-93.

Gen. org. chem. 6, L 4, 12, Jul.-S.

Hist. of chem. 2, 24, Ja.-Ju.

Org. preparats. L 10-20, 12, Jul.-S.

The Aromatic Series. 2, 24, Ja.-Ju.

## MASSUO IKUTA,

Tokio, '80-4; Berlin, '85; Ph.D.—Asst. in Chem., Erlangen, 1887; Asst. in Chem., Clark Univ., '91-2.

The Chemistry of Coal Tar Colors. 1, 24, O.-Mr.

## COLUMBIA.

## P. DE P. RICKETTS,

E.M. Ph.D.; Prof. of Analyt. Chem. and Assaying.

Spectroscopic Analyses. L 8, 30 (with Dr. Wells).

Quant. Anal. 4, L 15, 45 (1½ yr.) (with Mr. Bowen and Dr. Vulté).

Volumetric Methods of Quant. Anal. L 8, 30.

Revision of Constants. L 12, 30 (with Dr. Vulté).

Plant Analysis. L 12, 30 (with Dr. Vulté).

Electrolytic Analysis. L 12, 60 (with Dr. Wells).

## C. E. COLBY,

C.E.; Adj. Prof. Org. Chem.

[Offered in '92-93.]

El. org. chem. 3, lab., 30 (with Mr. Ward).

Gen. org. chem. 6, L 15, 30.

Adv. org. chem. L 12, 30.

Research: Org. chem. 30.

## J. S. C. WELLS,

Ph.D., Columbia, 1877; Instr. in Qualitative Anal.—New Methods of analysis.

Exam. of new methods of qualitative anal. L 10, 30.

Special chem. reacts. L 10, 30 (with Mr. Bowen).

Qual. Anal. 4, L 15, 30 (with Dr. Cushman).

## F. G. WEICHMANN,

Ph.D., Columbia, 1882; Instr. in Chem. Philos. and Chem. Physics.—Columbia; Berlin; Co-ed. *Sch. of Mines Quart.*, '79-81.—Theoretical chem.

Chem. philos. (el.). 2, 30.

Chem. philos. (adv.). 4, 30.

## H. T. VULTÉ,

Ph.D.; Tutor in Quant. Anal.

Inorganic Compounds. 1, L 6, A.-My. (with Mr. Ward).

Organic Compounds. 1, L 8, 30 (with Mr. Ward).

## Columbia — Continued.

- C. E. PELLEN, E.M.; J. A. DEGHNÉE,  
Ph.B.,  
Demonstrators.  
Physiological Chemistry. 2, L 2, 15  
(given twice a year) (with Mr.  
Johnson).

## CORNELL.

*Meetings held weekly, attended by instrs and  
graduates for reading journal abstrs.*

- G. C. CALDWELL,  
Ph.D.; Prof. Agricultural and Analyt. Chem.  
Quantitative anal. (adv.) (with L. M.  
Dennis).  
Hist. of Chem. 2, 32.  
Sanitary Chem. 2, 20.

- W. R. ORNDORFF,  
Ph.D., Johns Hopkins, 1887; Asst. Prof.  
Gen. and Organ. Chem.—Instr. Chem.,  
Cornell, '87-90.—Decomposition of certain  
org. comp.; preparation certain aldehydes:  
acetone: mol. wt. hydrog. peroxide and  
benzoyl peroxide.  
Org. chem. (el.). 3, L 3, 32.  
Special chaps. in org. chem. 2, 32.  
Adv. org. chem. lab. and research. 32.  
Sem. in organic chem. 1, 32.

- L. M. DENNIS,  
B.S.; Associate Prof. Analyt. Chem.—Mich-  
igan, München, Aachen, Dresden.—Analyt.  
Chem.; gas analysis.  
Adv. inorg. chem. (sem.). 1, 32.  
Adv. gas anal., Lab. 8.  
Spectroscop. chem. anal. and color-  
imetry. 1, lab., 12.  
Metallurgy. 2, 8, A.—My.

- J. E. TREVOR,  
Ph.D., Leipzig, 1892; Asst. Prof. Physical  
Chem.—Solution of double salts, measure-  
ment of small disassoc. grades. (Physical  
chem.)  
Theoretical chem. 3, 32.  
Phys. chem. lab. and research. 3, 32.  
Sem. in phys. chem. 1, 32.

- E. M. CHAMOT,  
B.S.  
Toxicology. 1, 10.

## HARVARD.

- J. P. COOKE,  
LL.D.; Prof. of Chem. and Mineralogy,  
and Dir. Chem. Lab.  
[Crystallography and the physics of  
Crystals. 3, 16, F.—Ju.]  
Chemical Physics (research). 5, 31.  
[Mineralogy (research).]  
C. L. JACKSON,  
A.M.; Prof. of Chem.  
Research: Aromatic compounds.  
H. B. HILL,  
A.M.; Prof. of Chem.  
Research: Organ. chem.  
\*The carbon compounds. 3, lab., 31.

- T. W. RICHARDS,  
Ph.D.; Instr. in Chem.  
\*Quantitat. anal. (adv.). 3, lab., 31.  
\*History of Chemistry and Chemical  
Philosophy. 1, 31.  
Inorganic Chemistry, including Deter-  
mination of Atomic Weights (re-  
search).

## JOHNS HOPKINS.

*Meetings for hearing reports on journal ar-  
ticles held weekly. 15-20 lectures by adv.  
students on special topics.*

- IRA REMSEN,  
Ph.D., Göttingen, 1870; Prof. of Chemistry  
and Dir. Chem. Lab.—Prof. Chemistry,  
Williams, '72-6; Ed. *Amer. Chem. Jour.*  
Select topics in the chem. of com-  
pounds of carbon. 2, O.—D.  
Carbon compounds. 5, Ja.—My.  
Special topics of research.  
H. N. MORSE,  
Ph.D., Göttingen, 1875; Prof. Analyt.  
Chem.—Instr. Chem., Amherst, '75-6.  
Analyt. methods. 1, 30.  
W. W. RANDALL,  
Ph.D., Johns Hopkins, 1890; Assoc. in  
chem.  
Physical chem. 2, O.—D.  
Laboratory work under the direction  
of Prof. Remsen and Morse.

**LELAND STANFORD, JR.****JOHN M. STILLMAN,**

Ph.D., University of California, 1885; Prof. of Chemistry. — Strassburg and Würzburg, '75-6; Instructor, Univ. of Calif., '75-82; Chemist, Boston and American Sugar Refining Co., '82-92.

\*Industrial Chemistry. 2, 32.

\*Theories of Chem. 1, 14.

Advanced Laboratory (with G. M. Richardson and L. R. Lenox).

**GEORGE M. RICHARDSON,**

Ph.D., Johns Hopkins, 1890; Assoc. Prof. of Chemistry. — Instructor, Lehigh Univ., '90-91.

\*History of Chemistry. 1, 18.

**F. G. NOVY,**

M.D., Sc.D.; Junior Prof. Hygiene and Physiol. Chem.

Advanced physiological chemistry. 34.

**E. D. CAMPBELL,**

B.S.; Junior Prof. Metallurgy and Metallurgical Chemistry.

\*Quant. anal. chem. 34.

\*Investigations in quant. methods. 34.

**GEORGE O. HIGLEY,**

M.S.; Instr. in General Chemistry.

\*The rarer chem. elem. 2, lab., 17, F.-Ju.

Laborat. researches in selected topics. 34.

**D. M. LICHTY,**

M.S.; Instr. in General Chemistry.

\*Methods of determining molec. weights. 3, lab., 17, F.-Ju.

**MICHIGAN.**

*Journal Club, in which all instructors take part. 2, 17, F.-Ju.*

**A. B. PRESCOTT,**

M.D., Ph.D.; Prof. of Organic Chemistry. — General organic and analytical chemistry.

Organic synthesis and ultimate analysis. Lab., 34.

Analyt. and org. chem. Lab., 34.

Investigations in org. chem. 34.

**PAUL C. FREER,**

Ph.D., München, 1887; Prof. of General Chemistry. — München, '83-87; Tufts Coll., Asst. in Chem., '87; Instr., '88; Lect. in Chem., Michigan, '89. — Organic Chem., esp. acetic ether and other ethers.

Theoretical chem. of recent years. 2,

L 10, 17, O.-F.

Research. Lab., 34.

**OTIS C. JOHNSON,**

A.M.; Prof. of Applied Chemistry.

\*Qual. anal. chem. 2, L 10-20, 17, F.-Ju.

\*Invest. in inorgan. reactions and qualit. methods.

**VICTOR C. VAUGHAN,**

M.D., Ph.D.; Prof. of Hygiene and Physiol. Chem.

Original research. 34.

**MINNESOTA.****GEORGE B. FRANKFORTER,**

Univ. of Nebraska, '86; M.A., '88; Lincoln (Neb.), one year; Ph.D., Royal Univ. of Berlin; Prof. of analytical chemistry in the Univ. of Neb.; Prof. of Chem. since Dec., 1893; Narcene and its constitutional structure; Beitrag zur Kenntniss des Narcenes; The Iodides of Narcene.

Special Inorganic Preparations.

Research work in Electro-chemistry.

Research work in general Organic Chemistry.

The Plant Alkaloids.

Stereo-chemistry and the Optical Activity of Organic and Inorganic Compounds.

Special research work in general Analytical Chemistry.

Individuals are guided in laboratory investigations throughout the year.

**PENNSYLVANIA.****E. F. SMITH,**

Ph.D., Göttingen, '76. — Prof. of Chemistry, Göttingen, '74-76; Prof. Chem., Wittenberg Coll., '83-88. — Investigation in inorganic, organic, and analytical chemistry; Translator of Richter's chemistry text-book.



**Pennsylvania — Continued.**

Advanced Inorganic Chemistry. 2, 30.  
 Analytical Chemistry. 1, 30.  
 Inorganic Preparations. 1, 15.

**HERMANN FLECK,**

Ph.D., Tübingen, '93; Instructor in Chemistry.

Organic Chemistry. 2, 30.  
 Gas Analysis. 1, 15.

**JULIUS OHLY,**

Ph.D., Göttingen, '93; Instructor in Chemistry.

History of Development of Chemical Theory. 1, 30.

**ROBERT H. BRADBURY,**

Ph.D., Univ. of Penna., '94.

Physical Chemistry. 1, 15.

**PRINCETON.****H. B. CORNWALL,**

Ph.D., Columbia, 1887; Prof. Applied Chem. and Mineralogy.

Adv. work in quant. chem. anal.; inorg. and org. 1, lab., 32.

\*Inorg. qual. anal. 2, L 5, 16, F.-My.

\*Inorg. quant. anal. 1, lab., 16, F.-My.

Other (technical) courses.

**L. W. McCAY,**

D.Sc.; Prof. of Chemistry.

Theoret. and org. chem. 2, 16, O.-Ja.

**VANDERBILT.****WILLIAM L. DUDLEY,**

M.D.; Professor of Chemistry.

\*Chemical Technology. 3, 32.

\*Quantitative Analysis. 3, 32.

\*Metallurgy. 2, 32.

\*Laboratory Work. 3, 32.  
 Research Course.

**J. T. MCGILL,**

Ph.D., Vanderbilt; Adjunct Professor of Chemistry.

\*Laboratory Work in Organic Chemistry. 3, 32.

\*Special Chapters in Organic Chemistry. Lectures. 2, 32.

\*Advanced Organic Chemistry. 3, 32.  
 Research Course in Organic Chemistry.

**WESTERN RESERVE.****EDWARD W. MORLEY,**

Ph.D., LL.D.; Prof. Chemistry.—Prof. Chemistry, West. Res. College and Adelbert College, 1869.

\*Organic Chemistry. 2 + 1, lab., S.-Ju.

Quantitative Analysis. 3, lab., S.-Ju.

**WISCONSIN.****W. W. DANIELLS,**

M.S.; Professor of Chemistry; State Analyst.

Adv. Inorganic Chemistry. S.-Ju.

Organic Chemistry. S.-Ju.

Analytical and Applied Chemistry. S.-Ju.

**YALE.****SAMUEL W. JOHNSON,**

A.M., hon., Yale; Prof. Theoret. and Agri. Chem.—Leipzig, '53-4; München, '54-5; Owens Coll., Manchester, England, '55; Dir. Conn. Agri. Exp. Station.—Composition, structure and nutrition of Cultivated Plants.

\*Chem. Physiology of vegetation. 2, 12, O.-D.

\*Agricultural chem. 2, 20, Ja.-Ju.

**F. A. GOOCH,**

Ph.D., Harvard, 1877; Prof. of Chem.—Harvard, '73-5; Wien, '75-6; Harvard, '76-7; Asst. Harvard, '73-5; Expert sp. agt. U. S. 10th census, '79-81; chem., Northern Transcont. Survey, '81-84; U. S. Geol. Survey, '84-86. — Analyt. Apparatus, methods and results; separation and determination of elements.

\*Exper. Inorgan. Chem. 3, exc., 32.

\*Exper. Organ. Chem. 3, exc., 32.

\*Qual. Anal. 3, exc., 32.

\*Quant. Chem. Anal. (el.). 3, exc., 32.

Quant. Chem. Anal. (adv.). 3, exc., 32.

Theoret. Chem. 1, 32.

Orig. Work and Research.

R. H. CHITTENDEN [see 20].

H. L. WELLS,

Ph.B., Yale, 1877; Asst. Prof. Anal. Chem.—Yale, 1877-80; München, '89; Chemist of Conn. Agri. Exp. Station, 2 yrs.—Minerals; Polyhalides; Double-salts; Analyt. Methods.

Analyt. Chem. Lab.

\*Qual. Anal. (el.). O.-D.

\*Quant. Anal. O.-Ju.

\*Quant. Anal. (adv.). O.-Ju.

\*Metallurgy and Assaying. Easter-Ju.

\*Tech. Gas Analysis. Easter-Ju.  
Invest. in Inorgan. Chem. O.-Ju.

A. J. WAKEMAN,

Ph.B.; Instr. Anal. Chem.

\*Adv. Descriptive and Theoret. Chem. 3, 32.

\*Physical Methods used in connection with Chem. O.-Ju.

WILLIAM T. H. HOWE,

Ph.B., Yale, 1893; Lab. Asst. in Chem.

\*Organ. Chem., Paraffin Series. 2, 32.

\*Organ. Chem., Aromatic Series. 2, 12, O.-D.

\*Organ. Preparations. 10, Ja.-Easter.

\*Theoret. Organ. Chem. 3, 10, Ja.-Easter.

Adv. Organ. Chem. 32.

## 20. BIOLOGY.

[Including Zoölogy, Botany, Physiology, and Palæontology (in part). See also 21.]

### BROWN.

ALPHEUS SPRING PACKARD,

M.D., Ph.D.; Prof. of Zoölogy and Geology.—Libr. Boston Soc. Nat. Hist., '65; State Entomologist, Mass., '71-73; Lecturer, Mass. Agr. Coll., '69-77; Maine Agr. Coll., '71; Bowdoin, '73-76; w. U. S. Geol. Surv., '75-77; w. U. S. Fish Com., '71-74.—Many scientific works, chiefly Zoölogy and Geology.

Zoölogy. 3, 12, Ja.-Mr.

HERMON CAREY BUMPUS,

Ph.D., Clark, 1890; Prof. of Comparative Anatomy.—B.Ph., Brown, '84; Instr. Biology, Brown, '84-85; Prof. Biology, Olivet Coll., '85-88; Fellow in Morphology, Clark Univ., '88-89; Assoc. Prof. Zoölogy, Brown, '89-90; Germany, '93-94; Asst. Dir. Marine Biol. Lab., Woods Holl, Mass., '94.

Invertab. Anatomy. 3, 10, A.-Ju.  
Comparative Anat. of Vertebrates. 3, 24, S.-Mr.

GEORGE WILTON FIELD,

Ph.D., Johns Hopkins, '92; Assoc. Prof. of Cellular Biology.—A.M., Brown, '90; Asst. in Biology, Johns Hopkins, '91-92; Naples, It., Zoölog. Station, '92-93.

Cellular Biology. 3, 10, A.-Ju.

Bacteriology. 1, 34.

General Biology. 3, 24, S.-Mr.

WILLIAM WHITMAN BAILEY,

A.M., Brown, '93; Prof. of Natural History (Botany).—Asst. in Chemistry, Mass. Inst. Techn., '66; Botanist, U. S. Geol. Exped., '67-68; Instr. Botany, Brown, '77-81; Fellow Am. Assoc. Adv. Sci.

Histology and Embryology of Phanerogams.

WINTHROP J. V. OSTERHOUT,

A.M., Brown, 1894; Instr. in Botany.

Structure and Devel. of Cryptogams. 3, 24, S.-Mr.

### BRYN MAWR.

1 Fellowship of \$525.

T. H. MOREAN,

Ph.D., Johns Hopkins, 1890; Assoc. Prof. Biology.—Embryology of Pycnogonids; develop. of Balanoglossus; develop. of frog, metamorphism.

Biology (adv.). fort.

Theories of Metamerism (lect.).

Ancestry of the Chordata (lect.).

\*General Zoölogy. 1, 30.

\*Embryology. 1, 30.

Journal Club. fort. (with Dr. Warren).

Seminary. fort. (with Dr. Warren).

## Bryn Mawr — Continued.

## J. W. WARREN,

M.D., Bonn, 1880; Assoc. Prof. Physiology. — Berlin, '71-2; Leipzig, '72-3; Bonn, '73-9; Asst. and Instr. in Physiol., Harvard, '81-91; Lecturer, Med. Dept., U. of City of N. Y., '85-6; Lect. in Physiol., Mich., '89.

\*Structure and func. of central nervous system. 1, 30.

\*Physiology (adv.). 1, 30.

## CALIFORNIA.

## E. L. GREENE,

Ph.B., Albion; Prof. Bot.

Economic Botany.

The Phanerogamic Natural Orders.

Hist. of Bot.

Medical Botany.

Advanced Systematic Botany.

## M. A. HOWE,

Ph.B., Vermont; Inst. Crypt. Bot.

Syst. Crit. Studies in Crypt. Plants.

Hist. and Comp. Studies in the Higher Crypt.

Vegetable Histology.

## CHICAGO.

## C. O. WHITMAN,

Ph.D., Leipzig, 1878; Head Prof. of Zoölogy. — Leipzig, '75-78; Prof. Zoölogy, Imp. Univ., Japan, '80-81; Asst. in Zoölogy, Harvard, '83-85; Dir. Allis Lake Lab., '86-89; Dir. Marine Biol. Lab., Woods Holl, since '88; Prof. Zoölogy, Clark, '89-92; Ed. *Journal of Morphology*; Pres. Am. Soc. Morphol. — Embryol. and anat., esp. leeches and teleosts; cytology; sense organs; methods morpholog. research; biol. instruction.

Embryol., higher invertebs. 1, L 15, 24, O.—Mr.

Embryol., tectonics verteb. emb. 1, L 15, 12, A.—Ju.

Sem. historical topics. fort. 24, O.—Mr.

Marine Biol. Lab., Woods Holl. Jul.—S.

## H. H. DONALDSON,

Ph.D., Johns Hopkins, 1885; Prof. of Neurology. — Johns Hopkins. Instr. Biol., '83-84; Assoc. in Psychol., '87-88; Asst. Prof. Neurology, Clark, '89-92. — Temperature sense, brain of Laura Bridgman.

The study of neurological problems. (Throughout year.)

Architect. central nerv. syst. 4, 12, O.—D.

Anat. of the spec. sense organs. 4, 6, Ja.—F.

Physical characters of brain as related to intelligence. 4, 6, F.—Mr.

Doctrine of localiz. of funet. in cerebral cortex. 4, 12, A.—Ju.

Dev. central nerv. syst. 4, 12, Jul.—S. Seminary. 2, 48.

## ADOLPH MEYER,

M.D., Zürich, 1892; Honorary Fellow, University of Chicago, 1892-93.

Introduction to the compar. anat. of cen. nerve system. 2, 12, A.—Ju.

## ALBERT C. EYCLSHYMER,

S.B., University of Michigan, 1891; Asst. in Anatomy. — Fellow in Biology, Princeton, 1881; Fellow in Morphology, Clark University, 1891-92; Fellow in the University of Chicago, 1892-93.

Mammalian Anatomy. 4, 6, O.—N.

Methods of Preparation of Animal Tissues. 4, 6, N.—D.

Elements of Histology. 4, 6, Ja.—F.

Methods of Preparation of Animal Tissues. 4, 6, F.—Mr.

Comparative Anatomy. 4, 12, Ja.—Mr.

Comparative Histology. 4, 12, A.—Ju.

Methods of Preparation of Animal Tissues. 4, 6, Jul.—Au.

Elements of Histology. 4, 6, Au.—S.

## G. BAUR,

Ph.D., München, 1882; Asst. Prof. Compar. Osteology and Palæontol. — München, '79-81; Leipzig, '81-82; Asst. Palæontol., Yale, '86-90; Docent in Comp. Osteol. and Palæontol., Clark, '90-92. — Verteb. osteol. and palæontol.; gen. zool.

Outlines verteb. zool. and palæontol. (cl.). 2, 12, O.—D.

Comp. osteol. and phylog. of verteb. L 2, 2, 24, Ja.—Ju.

Sem. in Phylogeny. 2, 36, O.—Ju.

Research in osteol. living and extinct verteb. 26, 36, O.—Ju.

Palæontolog. field work. Jul.—S.

## JACQUES LOEB,

M.D., Strassburg, 1884; Asst. Prof. of Physiology. — Asst. Physiol., Würzburg, '86-88; Asst. Physiol., Strassburg; Assoc. in Biol., Bryn Mawr, '91-92.

Orig. investig. in physiol. Lab., daily, 48.

Advanced Physiology. 4-8, 24, O.—Mr.

Advanced Physiology. 4-8, 12, Jul.—S.

Physiol. sense org. and periph. nerv. syst. 4, L 4, 12, O.—D.

Physiol. circulation, respir., animal heat. 4, L 4, 12, Ja.—Mr.

Gen. physiol. nerves and muscles. 1, L 4, 12, Jul.—S.

Gen. Phys. of Plants and Animals. 12, Jul.—S.

## W. M. WHEELER,

Ph.D., Clark, 1892; Instr. in Embryology. — Asst. in Morphol., Clark, '90-92. — Insects: Embryology, biology, fauna.

Vertebrate embryol. 3, L 7, 36, O.—Ju.

## E. O. JORDAN,

Ph.D., Clark, 1892; Instructor in Zoölogy. — Clark, '90-92; Lect. on Biol., Mass. Inst. Tech., '89-90.

Special Bacteriology. 8, 36, O.—Ju.

General Biology. 4, 24, O.—Mr.

General Bacteriology. 4, 12, A.—Ju.

General Biology. 4, 12, Jul.—S.

## S. WATASE,

Ph.D., Johns Hopkins, 1890; Instructor in Cellular Biol. — Johns Hopkins, '87-90; Asst. and Lect. in Zoöl., Clark, '90-92; Instr. at Marine Biol. Lab., Woods Holl. — Fish-fins; compound eyes; cleavage, esp. in Cephalopods; spermatogenesis.

Anat. and Physiology of cell. 4, 36, O.—Ju.

## D. J. LINGLE,

Ph.D., Johns Hopkins, 1892; Instructor in Physiology. — Johns Hopkins, '87-89; '90-92; — Asst. Prof. Biol., Tulane. — Vaso-motor nerves of the heart; physiol. of Ascedian heart.

Gen. Lab. in Physiology. 9, 12, A.—Ju.

Special Phys. of the Peripheral Nervous System. 2, L 2, 12, Jul.—S.

Physiol. of digestion, secretion, metabolism. 2, L 6, 12, Ja.—Mr.

## CLARK.

*Lab. open daily from 8-6. Special attention given to individual work. Journal Club, 1, 32. 2 Fellowships of \$600; 2 of \$400; 2 Scholarships of \$200; 2 of \$100.*

## C. F. HODGE,

Ph.D., Johns Hopkins, 1889; Fellow and Asst. in Neurol., Clark, '90-91; Instr. in Biol., Univ. Wis., 1892; Asst. Prof. Physiol. and Neurol.

Gen. Biol. (adv.). 1, O.—Ja., lab. Comp. study of nervous syst. and sense organs. 1, 32.

Physiol. of Nutrition. 1, 32, lab.

Physiol. of Reproduction.

Cerebral Localization. 6 lects., My. and Ju.

Embryology of Human brain and sense organs. 6 lects., A.

Muscle and nerve physiol.

Pract. histol. of nerve syst. Lab.

## COLUMBIA.

*Herbarium contains nearly 500,000 spec., esp. from Eng. and Scot., U. S. and Switz.; mosses.*

## J. G. CURTIS,

M.D.; Prof. of Physiology.

[With F. S. Lee:]

Comp. human and vert. physiol. 4-6, 30.

Lab. work in physical physiol. (research).

## N. L. BRITTON,

Ph.D., Columbia, 1881; Prof. of Botany. — Columbia: Instr. in Botany, '87-9; Adj. Prof. Botany, '89-91; Ed. *Bull. and Mem. Torrey Botanical Club*; Ed. *Trans. N.Y. Acad. Sci.* — Flora of New Jersey, North Am., Bolivia, Paraguay; geograph. distr. plants.

Nat. orders flowering plants. 1, L 4, 30.

Cryptogamic botany. 1, L 4, 30 (with Dr. Curtis).

Cryptogamic botany (adv.). 1, L 4, 30 (with Dr. Curtis).

Research in systematic botany.

## Columbia—Continued.

## H. F. OSBORN,

Sc.D.; DaCosta Prof. of Biology.

Morphol. of mammals. 6, 30.

Comp. zool. 6, 30 (with E. B. Wilson).

\*Comp. neurology. 3, 30.

[Vest. Organogeny, 1895-6.]

## E. B. WILSON,

Ph.D., Johns Hopkins, 1882; Adj. Prof. Invertebrate Morphology.—Yale, '78-9; Johns Hopkins, '79-82; Cambridge (Eng.), Leipzig, '82-3; München, '91-2; Asst. Zoology, Yale, '78-9; Asst. Biol., Johns Hopkins, '81-2; Lect. Biol., Williams, '83-4; Lect., Mass. Inst. Technol., '84-5; Prof. Biol., '85-91.—Embryol. invertebrates, cytology.

Cellular Biol. 6, F.-My.

Compar. embryol. 6, O.-Ja.

Special Embryol. 6, F.-My.

[See also under F. H. Osborn.]

## F. S. LEE,

Ph.D., Johns Hopkins, 1885; Demonstr. in Physiology.—Johns Hopkins, '81-5; Leipzig, '85-6; Assoc. in Physiol. and Histol., Bryn Mawr, '87-91.—Action of salts, etc., upon arteries, electric phenomena of contracting muscle, equilibrium-sense.

\*General physiology.

[See also under J. G. Curtis.]

## C. C. CURTIS,

A.M., Columbia, 1892; Ph.D., Syracuse, '93; Asst. in Botany.

Adv. vegetable anatomy. L 4, 30.

## BASHFORD DEAN,

Ph.D., Columbia, 1890; Instr. in Biology.—Columbia, '88-90; München, '92; Asst. U. S. Fish Com.—Insec. div. plants, biol. of oyster, fossil fishes, fish fins.

Morphol. fishes, esp. palæozoic. 6, 30.

## G. W. CALKINS,

B.S.; Tutor in Biol.

Special Morphol. 1, F.-My.

Adv. Biol. L 12, 30.

## G. S. HUNTINGTON,

Ph.D.; Prof. of Anat. Animal Morph.

Comp. Morph. of Carpus.

Comp. Morph. of Respiratory Apparatus.

Comp. Morph. of Nervous Syst.

Comp. Myology.

Comp. Morph. of Auditory App.

Comp. Morph. of Urinogenital Syst.

Cranial Topog.

## T. M. PRUDDEN,

M.D.; Prof. of Pathology.

## T. M. CHEESMAN,

M.D.; Instructor in Bacteriology.

Methods of study, measurements, etc., of Bacteria.

## CORNELL.

*Herbar. contains 15,000 sp.; Insectary of Agric. Exp. Stat. affords facilities for investig. in life history of insects. Museum with 3,000 human and comp. anat. specs., and 1,500 histol. and embryolog. specs.*

## BURT G. WILDER,

M.D., Harvard, 1866; Prof. Physiology, Comp. Anatomy and Zoology.—Harvard (Jeffries Wyman).—Pres. Am. Neurolog. Ass.—Anat. nomenclature; gross. anat. of brain, human and comp.; anat. of cat; ganoid fishes; spiders.

Neurology. 2, 8, A.-My.

Comparative anatomy. Lab. 6, 32.

## A. N. PRENTISS,

M.S.; Prof. Botany and Arboriculture.—Mich. Agric. Coll., '63-5; Prof. Bot. and Horticult., Mich. Agric. Coll., '64-8.—Mode of distrib. of plants; destruct. of insects by fungi.

Exotics.

Research in phanerog. and plant physiol.

## J. H. COMSLOCK,

B.S.; Prof. of Entomology, and Gen. Invertebrate Zoology.—Yale, '74-5; Leipzig, '88-9; Formerly U. S. Entomologist; also Prof. Entomol., Leland Stanford, Jr., Univ.—Econom. Entomology; Systemat. Entomol.

Lab. work in insect anat., life hist., and classific. L 25, 20, O.-D.; A.-My.

Entomolog. sem. 2, 8, A.-My.

Summer course in entomol. 3 lects., field and lab. work. 10, Ju.-S.

## S. H. GAGE,

B.S.; Assoc. Prof. Physiology.—Cornell, '77; Göttingen, '89; Instr. Asst. Prof. and Assoc. Prof., Cornell, since '78.—Anat., histol., physiol., microscopy.

Anatom. methods and gross anat. 3, 12, O.—D.

Microscope and micros. meths. 3, 12, Ja.—Mr.

Meths. and el. embryol. 4, 8, A.—My.

Vertebrate zool. lab. daily. 32.

Vert. histol. lab. daily. 32.

## G. F. ATKINSON,

Ph.B.; Assoc. Prof. Botany.

\*Fungi. 2, lab., 8, A.—My.

Research in cryptogams.

## W. W. ROWLEE,

B.L.; D.Sc.; Asst. Prof. Botany.

Herbar. work on Phanerogams. 1, lab., 8, A.—My.

Histol. of plants. 1, lab., 12, O.—D.

## P. A. FISH,

D.Sc.; Cornell, 1894.

Histology of nervous system. 3, 32.

## HARVARD.

*Museum Compar. Zoölogy, founded by Louis Agassiz, 1859 (Alexander Agassiz, curator), has collections, under the charge of museum ass'ts., and available for scientific study. Lib. of over 23,000 vols., and half as many pamphlets on Zoölogy and Palæontology. Humboldt Fund maintains one or more students at Museum, Newport Marine Lab., or Woods Holl, U.S. F.C., Stat. Investigations are published in the Bull. Mus. Comp. Zool. Botanic garden of 7 acres offers facilities for investg. Herbarium of over 200,000 species, incl. types of Synoptical Flora of N. A. Bot. lib. at Herbar. of over 9,000 vols. Bot. Mus., incl. Blaschka glass models. Extensive cryptogamic herb. Zoölogical and Botanical Clubs meet fortnightly. Virginia Barrett Gibbs Schol. of \$250, open to students in Zool., also a table at Naples Zool. Stat.*

## GEORGE L. GOODALE,

M.D., Harvard, 1863, LL.D.; Fisher Prof. Natural History.—Harvard, Tübingen; Formerly Pres. Am. Naturalists, Am. Soc. Adv. Sci., Bost. Soc. N. H.; Assoc. Ed. *Am. Jour. Sci. and Arts.*—Physiol. and Econom. botany.

Research in systematic phanerog. botany; veg. phys.; and econ. bot.

\*Phanerog. botany. 2, lab., 31.

Botany (second course). 2, 3, lab., 31.

## W. G. FARLOW,

M.D.; Prof. Cryptogamic Botany.

Research in struct. and devel. cryptogams (with R. Thaxter).

## E. L. MARK,

Ph.D., Leipzig, 1876; Hersey Prof. Anatomy.—Leipzig, '73-76; Jena, '76; Instr. Math., U. of Mich., '71-2; Harvard: Instr. Zool., '77-83; Asst. Prof., '83-86; Ed. Contrib. from Zool. Lab. Mus. Comp. Zool. at Harvard Coll. since '83.—Anat. and histol. of Coccidæ and Phylloxera; Maturation, fecundation and cleavage in Limax; Simple eyes in Arthrop.; Lepidosteus; Turbellaria.

Anatomy and Development of Animals (research).

\*Microscop. anat. 3, lab., 16, O.—Ja.

\*Embryol. of Vertebr. 3, lab., 15, F.—My.

## ROLAND THAXTER,

Ph.D., Harvard, 1888; Asst. Prof. Cryptogamic Botany.—Mycology: morphological and systemat.; econom. mycol.

Cryptogam. bot. 3, lab., 15, F.—My.

[See also under W. G. Farlow.]

Morphology of Plants. 3, 16, O.—Ja.

## G. H. PARKER,

Ph.D., Harvard, 1891; Instr. Zoölogy.—Harvard, '87-91; Leipzig, '91-2; Freiburg, '92-3; Naples; Harvard: Asst., '86-88; Instr. Zool., '88-91; Biologist, Mass. State Bd. of Health, '88-90.—Compound eyes in Arthropods; animals of drinking water.

\*Comp. anat. vertebr. 3, lab., 31.

Nervous System and its Terminal Organs. 3, 16, O.—Ja.

## C. B. DAVENPORT,

Ph.D., Harvard, 1892; Inst. Zoölogy.—Harvard, '88-92.—Non-sex. reprod., esp. in Bryozoa; Urnatella.

\*Experimental Morphol. 2, 31.

(Lectures, laboratory work, and a thesis.)

## D. D. SLADE,

M.D.; Lect. on Comp. Osteol.

Comp. osteol. (research).

## JOHNS HOPKINS.

*Marine Lab. in Zool. is open during part of year. Students have access to Capt. G. D. Smith's private herbar., 78,000 sheets, esp. flora U. S. and Am. tropics; also to the Schimper coll. Europ. phaner. and Fritzer coll. mosses and others. Journal Club meets weekly. The income of the Adam T. Bruce Fell. of \$10,000 is yearly awarded to a student in Zool.*

## W. K. BROOKS,

Ph.D., Harvard, 1875; Prof. Animal Morphol. and Dir. Chesapeake Zool. Lab.—Assoc. ed. *Studies from the Biol. Lab.*

Principles of Zool. 3, O.—D.

Lectures in adv. zool. by instructors and fellows. 1, Ja.—Mr.

Marine Zool. 1, A.—Ju.

Zool. Seminary. 1, O.—Mr.

Readings in Zool., weekly, through winter.

## W. H. HOWELL,

Ph.D., Johns Hopkins, 1884; Prof. of Physiology; M.D.—Johns Hopkins; Asst., Associate, Assoc. Prof., '84–89; Lect., Michigan, '89–90; Prof. Physiol. and Histol., Mich., '90–92; Assoc. Prof. Physiol., Harvard, '92–3.

Animal physiology. 4, 30, lab. work. Physiological seminary. 1, 15, O.—Ja.

Lectures in adv. physiology by instructors and students. 1, 15, F.—My.

Adv. lab. work in Physiology. [Dr. Lotsy].

Physiolog. or morphological botany.

## LELAND STANFORD, JR.

## CHARLES H. GILBERT,

Ph.D., Indiana Univ., 1883; Prof. of Zool.—Prof. of Zoology, Indiana Univ., 1882–91; Assistant to U. S. Fish Commission, 1880–91.

Adv. Ichthyology. 3, 32.

## DOUGLAS H. CAMPBELL,

Ph.D., Univ. of Michigan, 1886; Prof. of Botany.—Bonn, Tübingen, Berlin, 1886–88; Prof. of Botany, Indiana Univ., 1888–91.

\*Histological Methods. 2, 32. Adv. work.

## WILLIAM R. DUDLEY,

M.S., Cornell, 1876; Prof. of Botany.—Penikese, 1876; Strassburg, Berlin, 1887–88; Asst. Prof. Botany, Cornell Univ., 1876–92.

Biol. of Spermatophyta and Fungi (adv.). 5, 32.

## OLIVER P. JENKINS,

Ph.D., Indiana Univ., 1886; Prof. of Physiology.—Prof. of Biology, De Pauw Univ. 1886–91.

\*Animal Physiology. 3, 32.

\*Nervous System (with C. W. Greene). 3, 32.

Seminary. 1, 32.

Journal Club. 1, 32.

Nervous System and Sense Organs (adv.).

## JOHN H. COMSTOCK,

B.S., Cornell, 1874; Prof. of Entomology.—Vale, 1874–75; Leipzig, 1888–89; Formerly U. S. Entomologist; also Prof. Entomol., Cornell Univ.—Econom. Entomology; Systematic Entomol.

Adv. Laboratory (with V. L. Kellogg). 3, 32.

\*Morphol and Clas. of Coccidæ. 3 12. Seminary.

## VERNON L. KELLOGG,

M.S., Univ. of Kansas, 1892; Assoc. Prof. of Entomology.

Adv. Laboratory. 3, 32.

## GEORGE C. PRICE,

B.S., De Pauw Univ., 1890; Asst. Prof. of Zoology.—Johns Hopkins, 1890–92.

\*Adv. Embryology. 2, 32.

## CHARLES W. GREEN,

A.M., Stanford, 1893; Instructor in Physiology.

Circulation of Blood (adv.). 2, 32.

## HOMER J. HEATH,

\*Histology.

## MICHIGAN.

## J. B. STEERE,

Ph.D.; Prof. of Zoology.

- \*Systematic study of Vertebrates.
- \*Special Study of Invertebrate groups.
- \*Development of species and theory of classification.

## W. P. LOMBARD,

M.D., Harvard, '81; Prof. of Physiology and Histology.—Harvard, '78-81; Leipzig, '82-5; Asst. in Physiol., Coll. Phys. and Surg., N. Y., '88; Asst. Prof. Physiol., Clark, '89-92.

- \*Physiology. 5, 34.
- \*Physiology; laboratory course. 1, 17, O.-F. or F.-Ju.
- Physiological experimentation. 1, 17.
- Physiological research. 34.

## G. C. HUBER,

M.D., 1888; Asst. Prof. of Histology.

Microscopic anat. of brain and special sense organs. 5, 17, O.-F. or F.-Ju.

## F. C. NEWCOMBE,

Ph.D., Leipzig, 1894; Asst. Prof. of Botany.—Michigan: Instr. in Botany, '90-92.—Spore dissemination of equisetum; effect of mechanical resistance on the growth of plant tissues; eff. of mech. resist. on the development and life-period of cells.

- \*Vegetable histology. 5, 17, O.-F.
- \*Comp. anat. and physiol. of phanerogams. 5, 17, F.-Ju.

## L. N. JOHNSON,

A.M.; Instr. in Botany.

- \*Cryptogamic botany. 5, 34.

## DEAN C. WORCESTER,

A.B.; Asst. Prof. of Animal Morphology.

Current lit. of animal morphol. 1, 34.

Original work in invertebrate morphol.; vert. comp. anat. embryol. and histol. 34.

- \*Invertebrate morphol. 3, lab., 34.

## C. A. KOFOID,

A.M.; Instr. in Animal Morphology.

- \*Comp. embryol. and anat. of vertebrates. 5, lab., 34.
- \*The animal egg. 1, lab., 17, F.-Ju.

## W. H. LEWIS,

B.S.; Instr. in Animal Morphology.

- \*Mammalian anat. 5, lab., 34.

## MINNESOTA.

## HENRY FRANCIS NACHTRIEB,

Univ. of Minn., 1882.—Fellow in dept. of Biology and asst. in Biol. Lab., Johns Hopkins, '82-84; Prof. of Animal Biology and Histology, Univ. of Minn., since 1886; State Zoölogist of the Geol. and Nat. Hist. Survey; Reports on the Zoölogical survey of the State.

Research: Any line of original investigation in

1. Invertebrate Embryology and Morphology.
2. Vertebrate Embryology and Morphology.

Advanced Studies: Corroborative work in any branch of Animal Embryology and Morphology.

Under certain conditions some undergraduate work may be pursued by those who have not completed the work as undergraduates.

Individual laboratory work directed throughout the year.

## CONWAY MACMILLAN,

Univ. of Neb., '85.—Asst. Geologist of the U. of Neb., '85-86; M.A., '86; Biological Laboratory, Johns Hopkins, '86-87; instr. in Botany, U. of M., '87; grad. student, Harvard, '89; asst. prof. of Botany, '90; State Botanist of the Geol. and Nat. Hist. Survey; The Metaspermæ of the Minnesota Valley; several other reports on the Botanical survey of the State; Editor of the Minnesota Botanical Studies; Editor-in-chief of the *Quarterly Bulletin*.

Advanced Courses offered to undergraduates, in this department, are open also to graduate students.

Comparative Gametophytic Anatomy and Embryology; laboratory and reference work. Open to those who have completed six terms of botanical work. First term.

Comparative Sporophytic Anatomy and Embryology; laboratory and reference work. Open to those who have completed the work of the course as above. Second and third terms.

Phytodynamics and Oecology; lectures and reference work. Open to those who have completed five terms of botanical work. First term.



**Minnesota—Continued.**

Phytocytology, Structural and Dynamic; laboratory and reference work. Open to those who have completed seven terms of botanical work. Second and third terms.

Experimental Embryology Organogeny; laboratory and reference work. Open to a limited number who may present the requisite evidence of fitness for original research. Throughout the year.

Special research work in some selected line. Open to all graduate students whose preparation may be deemed sufficient. Throughout the year.

**PENNSYLVANIA.**

*Biological Laboratory and Wistar Institute of Anatomy and Biology.*

**HARRISON ALLEN,**

M.D.; Prof. Comp. Anat. and Zoölogy.—Human Anatomy and Comp. Anat. of Animals.

The Mechanism of Locomotion. 2, 30.

Mammalian Neurology and Craniology. 2, 30.

**J. T. ROTHROCK,**

M.D.; Prof. Botany.—Numerous Articles on Botany.

Systematic Botany; Economic Botany; Medical Botany. At least, 15, 30.

**W. P. WILSON,**

Sc.D.; Prof. of Botany.

*Plant Histology:*

Laboratory Work, with Instruction. 6, 15.

*Plant Physiology:*

Laboratory Work, with Instruction. 6, 15.

**J. A. RYDER,**

Ph.D., hon., U. of Penna.; Prof. Comp. Embryology.—Spec. Asst. U. S. Fish Commission, '80-6.—About 200 papers on Morphol. and Physiol.

Comparative Histology; supervision and laboratory work. 12, 15, O.-F.

Comparative Embryology; supervision and laboratory work. 12, 15, F.-J.

**HORACE JAYNE,**

M.D., U. of Penna, 1882; Prof. Vertebrate Morphology.—Jena, Leipzig, '82-3; Johns Hopkins, '83-4.—Abnormalities in N. A. Coleoptera; N. A. Dermestidae.

The Osteology of the Mammalia. 4, 30.

**J. M. MACFARLANE,**

Sc.D., Edinburgh, '83; Prof. of Botany.—Edinburgh Univ.; Asst. in Botany, '79-87; Asst. Prof., '87-91; Prof. of Botany, Roy. Veter. Coll., and St. George's Coll., Edinburgh, '85-90.—Cell Hist.; botanical subjects; Hist.: of Dionæa.

Comparative Morphology of the leading Natural Orders of Plants. 3, 30.  
Laboratory Work on the above. 9, 30.

**PRINCETON.**

*1 fellowship of \$400 and 1 fellowship giving free use of table at U. S. F. C. station, Woods Holl.*

The following subjects of instruction are arranged for:—

**GEORGE MACLOSKIE,**

LL.D., D.Sc.; Prof. of Biology.

Anat. and embryol. of higher invertebr.; vegetable morphol. and histol.

**H. B. CORNWALL [see 19].**

Physiol. chem.

**WILLIAM LIBBEY, JR. [see 21].**

The microscope and microscopic technology; histology; deep sea soundings and dredgings.

**W. B. SCOTT [see 21].**

Vertebr. and invert. paleontol.; adv. embryol.

**W. M. RANKIN,**

Ph.D.; Instr. in Biol. and Curator Zool. Mus. Anat. and embryol. mollusca.

**C. F. W. MCCLURE,**

Instructor in Biol.

Comp. anat. of vertebr.; el. of embryology.

## VANDERBILT.

JAMES M. SAFFORD,  
M.D.; Ph.D., Yale, '44.

Outlines of Zoölogy and Palæontology. 3, 16.

PAUL M. JONES,  
M.S., '91; Dec., '92, Vanderbilt; Instructor  
Biology and Geology.

\*Gen. Biology; Animal and Vegetable  
Morph. 2, 32.  
Comparative Anatomy. 3, 16.  
Histology. 3, 16.  
Vertebrate Embryology. 3, 32.

## WESTERN RESERVE.

F. H. HERRICK,  
Ph.D., Johns Hopkins, '88; Prof. of Biol-  
ogy.—Instructor in Biology, Adelbert, '88-  
'91; Prof. Biology, '91.—Crustacea.

\*Elements of Zoölogy or Animal Mor-  
phology. 3, lab., S.-Ja.  
Animal Structure and Development.  
3 exercises (5 hrs.), S.-Ja.  
\*Vertebrate Embryology. 1, S.-Ja.  
\*Vegetable Morphology. 1, F.-Ju.  
\*Mammalian Anatomy. 3, S.-Ja.  
Animal Physiology. 3, F.-Ju.

## WISCONSIN.

E. A. BIRGE,  
Ph.D., Harvard; Professor of Zoölogy and  
Dean of the College of Letters and Science,  
Invertebrate Zoölogy. 5, 36.  
Research work. 5, 36.

CHARLES R. BARNES,  
Ph.D.; Professor of Botany.  
Vegetable physiology. 5, 36.  
Bryology. 5, 36.

H. L. RUSSELL,  
Ph.D., Johns Hopkins; Asst. Professor of  
Bacteriology.  
Bacteriology. 5, 36.

## YALE.

D. C. EATON,  
A.M., Yale, 1864; Prof. Botany.—Ferns  
and Mosses.

Systematic Botany (Phænogams).  
O.-Ju.

\*Pteridology and Bryology. lab., 2,  
32.  
Botany (with W. A. Setchell).

A. E. VERRILL,  
A.M., Yale, 1867; Prof. Zoölogy, Instr.  
Geol. and Curator Zoöl. coll.—Anatomy,  
Taxonomy, and distrib. animals, esp. Amer.  
invertebr.

Zoölogy (lab. pract. rec., and lect.).  
O.-Ju.

S. I. SMITH,  
A.M., Yale, 1887; Prof. Comp. Anat.—  
Anatomy, Development, Taxonomy, and  
Distrib. of Crustacea.

\*El. Anat. and Histol. 4, lab., 12,  
O.-D.

\*Comp. Anat. and Gen. Biol. 6, lab.,  
20, Ja.-Ju.

Comp. Anat. and Gen. Biol. (adv.).  
lab. open 5 days per wk.

R. H. CHITTENDEN,  
Ph.D., Yale, 1880; Prof. Phys. Chem.—  
Yale; Heidelberg; Instr. Phys. Chem.,  
Yale, '76-82; Ed. *Studies fr. Lab. Physiol.*  
*Chem.*, Yale, '84-9; Assoc. Ed. *Jour. of*  
*Physiol.*—Origin, action, and composition  
of var. chem. subs. in animal body, esp.  
action of digestive juices.

Physiol. Chem. and Physiology. Re-  
search.

\*Physiology. 1, 32.

\*Physiol. Chem. 4, 20, Ja.-Ju.

C. E. BEECHER,  
Ph.D., Yale, 1889; Asst. Prof. Palæon-  
tology.—Brachiopoda, Sponges, Corals,  
Crustacea.

Invertebrate Palæontology. O.-Ju.

W. A. SETCHELL,  
Ph.D., Harvard, 1891; Instr. Botany.—  
Struct. and Devel. *Tnomeya*; Life; Hist.  
*Saccorhiza*.

Microscopic Anat. of Phænogamous  
Plants. 3, 1st half yr.

Element. Vegetable Physiology. 3,  
2d half yr.

Morphology and Development of  
Cryptogamous Plants 3, 32.

Mycology and Phycology. 3, 32.

## 21. GEOLOGY AND GEOGRAPHY.

[Including Palaeontology (in part), Lithology, and Mineralogy. See also 19 and 20.]

## CALIFORNIA.

## J. LE CONTE,

M.D., N. Y.; B.S., Harvard; LL.D., Georgia; Prof. Geol. and Nat. Hist.

Lecture on special topics.

## A. C. LAWSON,

Ph.D., Johns Hopkins; Assoc. Prof. Mineral.

Grad. work in Inorganic Geol.

## S. B. CHRISTY,

Ph.B.; Prof. Min. and Met.

Lect., lab., and field work in mining, metallurgy, assaying and ore dressing, especially of precious metals.

## CHICAGO.

## T. C. CHAMBERLAIN,

Ph.D., U. of Mich., and U. of Wisc., 1882; LL.D., U. of Mich., 1887; Head Prof. of Geology, and Director of Walker Museum.—Asst., then Chief State Geologist, Wisc., since '73; U.S. Geol. Survey, since '82; Prof. Geol., Beloit Coll., '73-82; Lect., *ibid.*, '82-7; Prof. Geol., Columbian U., '85-7; Pres. U. of Wisc., '87-92; Ed. *Journal of Geology*.—Geology, esp. glacial.

Principles and working methods of geol. 5-10, 24, O.—Mr.

Special geol. (with R. D. Salisbury). 5-10, 6, O.—D., and Jul.—S.

Local field geol. (ditto).

Seminary. fort., 48.

Geologic Life Development. 4, 12, A.—Ju.

Professional Geology (with R. D. Salisbury). Jul.—S.

Independent field work (with R. D. Salisbury). Jul.—S.

## R. D. SALISBURY,

A.M., Beloit, 1881; Prof. Geograph. Geol. and Dean in the Univ. Coll.—Heidelberg, '87-8; Beloit: Instr. Geol. and Biol., '83-4; Prof. Geol., '84-91; Asst. U. S. Geol. Survey, since '82; Prof. Gen. and Geogr. Geol., U. of Wisc., '91-2.

Geographic Geology. 5-10, 12, O.—D. Structural Geol. and Continental Evolution. 5-10, 12, Ja.—Mr.

Lab. Work in Geog. Geology (with H. B. Kummel). 4, 6, N.—D.

Geographic Geol. 5-10, 6, Jul.—S.

General Geology. 5-10, 12, Ja.—Mr.

Field Geology. 10, 6, Au.—S.

## J. P. IDDIGS,

Ph.B.; Assoc. Prof. Petrology.—Yale, '77-8; Columbia, '78-9; Heidelberg (Rosenbusch), '79-80; Asst. Geol., U. S. Geol. Sur., '80-8; Geologist since '88.—Petrography.

Crystallography. 4, 6, O.—N.

Physical Mineralogy. 4, 6, N.—D.

Petrography. 10-5, 36, O.—Ju.

Descriptive Mineralogy. 4, 12, Ja.—Mr.

Petrology. 4, 12, A.—Ju.

Petrology. 5-10, 6, A.—Ju.

## R. A. F. PENROSE, JR.,

Ph.D., Harvard, 1886; Assoc. Prof. Economic Geol.—Harvard, '84-6; Asst. Geol., Geol. Survey of Texas, '88-9; of Arkansas, '89-92.—Manganese phosphate and iron-ore deposits; Texas tertiary.

Elements econ. geol. 5, 12, Ja.—Mr.

Ore deposits and allied formations. 5, 12, Ja.—Mr.

## EDMUND C. QUEREAU,

Ph.D., Freiburg, 1893; Fellow, the University of Chicago, 1893; Asst. in Palaeontologic Geology.

Palaeontologic Geology. 5, 12 (or 10, 6), Ja.—Mr.

Special Palaeontologic Geol. 5-10, 12, A.—Ju.

Palaeontologic Geol. 5, 12 (or 10, 6), A.—Ju.

## COLUMBIA.

## J. F. KEMP,

E.M.; Prof. of Geology.—Columbia, '84-5; Leipzig, München, '85 6; Cornell: Instr. and Assoc. Prof. Geol. and Mineral., '86-91;

Columbia, Adj. Prof. Geol., 91-2; Ed. *Sch. of Mines Quart.*—Econ. geol., petrography, mineral.

Econ. geol. 3, 30.

Petrography. 2, L 4, 2 mo. of 2d term.

Petrog. 2, L 4, 30.

Petrography (adv.). L 8, 30.

Research in Petrog.

A. C. GILL.

Mineralogy. 3, 20.

Petrography. 3, 20.

G. D. HARRIS.

Palæontology in lab. and museum.

3, 32.

Conchology. 3, 32.

A. J. MOSES,

Ph.D.; Adj. Prof. Mineralogy.

Systemat. mineral. 9, 60.

Physical mineral. 9, 60.

[With Mr. Luquer:]

Descrip. and Math. crystallog.

L. McI. LUQUER,

G.E.; Tutor in Mineralogy.

Optical props. minerals. 9, 30.

[See also under A. J. Moses.]

C. A. HOLLICK,

Ph.B.; Tutor in Geology.—Columbia; Curator, N. Y. Acad. Sci.—Relations bet. geolog. formations and distrib. of plants; fossil botany, esp. Cretaceous and Tertiary of East. U. S.

Gen. geol. 2, O.—Ja.

Palæobotany. 1, L 4, 60.

Research in flora of cert. horizons.

Research also with Prof. Kemp.

S. VAN INGEN,

Curator of Geological Collections.

Invertebrate Palæontology. 2, L 4, 30.

### CORNELL.

*Museum of Geology, Palæontol., and Mineral. comprises rich collection N. Y. State fossils (Jewett coll.) and other collections.*

R. S. TARR,

B.S.; Asst. Prof. Geology.—Harvard; Asst. Geol., Harvard; Asst. Geol., Texas Geol. Sur. and U. S. Geol. Sur.—Petrography, stratig. geol., phys. geog.

Physical geography. 2, 32.

Sem. in geol. 1, 32.

Geological investigation in lab. and field. 2, 32

### HARVARD.

*Geological conference meets weekly for presentation and discussion of papers. Advanced geological work, with original investigation, is conducted by all instructors, during the summer as well as during the rest of the year.*

J. D. WHITNEY,

LL.D.; Sturgis-Hooper Prof. of Geology.

\*Econ. geol. 2, lab., 31.

Mineral Veins and Metalliferous Deposits: their mode of occurrence, and theories of their origin. Lectures, reading, and theses.

Geographical methods and results. 1, 31.

N. S. SHALER,

S.D.; Prof. of Geology.

[With R. T. Jackson:]

\*Palæontology (el.). 3, lab., 31.

\*Histor. geol. 1, lab., 31.

Palæontology. Research.

W. M. DAVIS,

S.B., M.E.; Prof. Physical Geography.—Asst., Argentine Nat. Obs., Cordova, Argentine Repub., '70-3; at Harvard since '76.—Triassic formation of Conn.; glacial geol.; physical geography, esp. nat. hist. of rivers; meteorology.

Research in phys. geog. and meteorology.

\*Physical Geography of the United States. 3, 31, F.—Ju.

[Physical Geography of Europe.] 3, 31, F.—Ju.

J. E. WOLFF,

Ph.D.; Asst. Prof. Petrography.

\*Petrography. 2, lab., 31.

Petrograph. research.

**Harvard — Continued.**

J. B. WOODWORTH,  
Asst. in Geology.

\*Gen. critical geol. 2, lab., 31.  
Glacial Geol. 31.

H. L. SMYTHE,

A.B., C.E.; Harvard, Instr. in Geological Surveying. — Topographer, U. S. Geol. Survey; Practising Civil and Mining Engineer. — Several articles on the Geology of the Lake Superior Regions.

Mining Geology. 3 D.-A.  
Geological Surveying. 3 D.-A.  
Pre-Cambrian Geology of North America. 3, 31.

**JOHNS HOPKINS.**

*Geolog. conferences held weekly to read and discuss papers.*

G. H. WILLIAMS,

Ph.D., Heidelberg, 1882; Prof. Inorganic Geology and Mineralogy. — Amherst, '79; Göttingen, '79-80; Heidelberg, '80-2; Assoc. Prof., Johns Hopkins, '83-92; Assoc. ed. *Jour. of Geol.* — Gen. mineral., crystallog., gen. petrography, geol. of Maryland.

Microscop. petrography.  
Mineralogy.

Lab. work in inorganic geology.

W. B. CLARK,

Ph.D., München, 1887; Assoc. Prof. Organic Geol. — München, '84-7; Dir. Maryland State Weather service; Asst. U. S. Geol. Sur. — Stratigraphical geol. and palæontol., esp. Eocene of U. S.; mesozoic echi-noderms of U. S.; Cretac. and tertiary geol. of N. J. and Md.; Phys. features of Md.

Palæontology.

Historical geology.

Lab. work in organic geology.

Lectures on general geology by Prof. Williams and Dr. Clark.

**LELAND STANFORD, JR.**

JOHN C. BRANNER,

Ph.D., Indiana Univ., 1885; Prof. of Geology. — Prof. Geology, Indiana Univ., 1885-91; State Geologist of Arkansas, 1887-92.

\*General and Economic. Geol. 3, 32.

\*Topographic Geol. 5, 32.

Adv. investigations.

JAMES P. SMITH,

Ph.D., Göttingen, 1892; Assoc. Prof. Mineralogy and Palæontology. — Asst. Geologist, Arkansas Geol. Survey, 1887-90.

\*Adv. Mineral. and Petrography. 5, 32.

\*Adv. Palæontology. 2 to 5, 32.

**MICHIGAN.**

I. C. RUSSELL,

M.S., C.E.; Prof. of Geology. — Columbia Sch. of Mines, '72-4; Asst., U. S. Transit of Venus exp., '74-5; Asst. Prof. Geol., Columbia, '75-7; Asst. Geol., U. S. Surv., 100th Mer., '78; Asst. Geol. and Geol., U. S. Geol. Surv., '80-92; Assoc. ed. *Jour. of Geol.* — Pleistocene lakes of Great Basin, existing glaciers U. S.; Geol. of Oregon; Wash., and Alaska.

Physical and Glacial Geol. 2, 17, O.-F.

Palæont. investig. 2-3, 17, F.-Ju.

**MINNESOTA.**

CHRISTOPHER W. HALL,

Middlebury College, '71; Univ. of Leipsic, '75-77; Prof. of Geology and Mineralogy since 1878. — Has published many articles in Geological and Mineralogical magazines; founder of the Minnesota Academy of Natural Sciences.

The Granitic Rocks of Central Minnesota.

The Pre-Cambrian Eruptives of Northeastern Minnesota.

Basic Intrusives and their Contact Phenomena.

The Lower Paleozoic of Southeastern Minnesota. Special field to be selected on consultation.

Original Problems on particular groups of minerals; the group to be selected on consultation.

Individuals directed in research work throughout the year.

**PENNSYLVANIA.**

A. P. BROWN,

Ph.D., U. of Penn., '93; Instr. in Mining and Metallurgy. — U. of Penn. — Articles on Geology and Mineralogy.

Geology (as in catalogue). 2, 30.

Dynamical Geology and Physiography. 1, 30.

Chemical Geology and Metamorphism. 1, 15.  
 Geology Practicum. 3, 30.  
 Mathematical and Physical Crystallography. 1, 15.  
 Systematic Mineralogy and classification. 1, 15.  
 Synthetic Mineralogy, Pseudomorphs and Paragenesis. 1, 30.  
 Mineralogy Practicum. 4, 30.

## PRINCETON.

WILLIAM LIBBY, JR.,

Ph.D., Princeton, 1879; Prof. Physical Geography and of Normal Histology, and Dir. E. M. Mus. Geol. and Archæol.—Princeton, '78-79; Berlin, '79-80; Paris, '80; Asst. in Scientific Inquiry, U. S. Fish Com.—4th ed. Smithsonian meteorol. and physical tables; physical investig. of Gulf Stream.

Relat. of phys. geog. to hist. of mankind. 1, 16, F.-Ju.

W. B. SCOTT,

Ph.D., Heidelberg, 1880; Blair Prof. Geol.—Princeton, '77-78; London, Cambridge, '78-79; Heidelberg, '80.—Palæontol. and embryol. of vertebr.; histor. geol., theories of evolution.

Physical geology. 2, 32.

## VANDERBILT.

JAMES M. SAFFORD,

M.D.; Ph.D., Yale, 1844.

\*Economic Geology. 3, 32.  
 Ore Deposits. 3, 32.

PAUL M. JONES,

M.S., '91; D.Sc., '92, Vanderbilt; Instructor Geology and Biology.

Advanced Mineralogy. 3, 16.  
 Petrography. 3, 16.

## WESTERN RESERVE.

H. P. CUSHING,

M.S., Cornell.—Assoc. Prof. of Geology, Cornell, 1882-83; Columbia School Mines, 1883-84; Instructor Geology, Chemistry, Physics, State Normal School, Mankato, Minn., 1885-91; Europe, '91-92; Instructor in Geol. and Chemistry, Coll. for Women, W. R. U., '92.—Petrography.

Descriptive Mineralogy and Crystallography. 3 exercises, S.-Ja.

\*Elements Qualitative Analysis. 3, lab., S.-Ja.

\*Determinative Mineralogy. 3, lab., F.-Ju.

Petrography. Time to be determined.  
 Stratigraphical and Dynamical Geology. Time to be determined.

## WISCONSIN.

CHARLES R. VAN HISE,

Ph.D.; Prof. of Geology; non-resident Prof. of Pre-Cambrian Geology, Univ. of Chicago; Geologist in charge of Lake Superior Division, U. S. Geol. Survey.

Principles and Methods of Stratigraphy. 5, 36.

WILLIAM H. HOBBS,

Ph.D., Johns Hopkins; Asst. Prof. of Mineralogy and Petrology; Asst. Geologist, U. S. Geol. Survey.

Petrology. 5, 36.

## YALE.

G. J. BRUSH,

A.M., Yale, 1857; LL.D., Harvard, '86; Prof. Mineralogy and Director Sheffield Sci. School.—Minerals.

[With S. L. Penfield and L. V. Pirs-son:]

Mineralogy, lab. and lect.  
 Lithology, microscop. petrography.

H. S. WILLIAMS,

Ph.D., Yale, 1871; Prof. Geology.—Formerly Prof. Geol. and Palæontol., Cornell; U. S. Geol. Survey.—Palæontol., Stratigraphy, and Correlat. of Dev. and Carb., etc., and Gen. Princip. Palæontol. and Histor. Geol.

Hist. Geol. and Palæontol.

\*Geol. (gen. course). 2, 32.

\*Geol. Hist. of Organisms. 3, 32.

\*Geol. (adv. course).

W. H. BREWER [see also 12],

Ph.D., Washington and Jefferson, 1880; Norton Prof. Agriculture.—Formerly Prof. Nat. Sci. in Wash. Coll.—Agricult. Topics, esp. Breeding Botany and Geol. California; Sanitation; Gen. Biol.

\*Phys. Geog. 2, 32

## Yale — Continued.

E. S. DANA,

Ph.D., Yale, 1876; Prof. Physics.—Ed.  
*Amer. Journal Sci.*—Mineralogy.\*Mineralogy and Crystallography. 2,  
32.

\*Descriptive Mineralogy. 1, 32.

S. L. PENFIELD,

Ph.B., Yale, 1877; Asst. Prof. Mineralogy.  
—Mineralogy and Crystallography. [See  
under G. J. Brush.]

L. V. PIRSSON,

Ph.B., Yale, 1882; Instr. Lithology.—Min-  
eralogy and Crystallography. [See under  
G. J. Brush.]

## APPENDIX.

### CORNELL.

[See note, page 19.]

#### 2. Indo-Iranian Languages and Literatures.

B. I. WHEELER [see 3].

Interpretation of Rig Veda. 2, 12, O.-D.

G. P. BRISTOL [see 3].

Sanskrit (el.). 2, 32.

#### 3. Classic Languages and Literatures.

*a fellowships, \$500 each.*

BENJAMIN I. WHEELER [see also 2 and 7],

Ph.D., Heidelberg, 1884; Prof. of Greek and Comp. Philology.—Leipzig, '81-2; Heidelberg, '82-4; Jena, '84; Berlin, '84-5; Instr., Brown, '79-81; Instr., Harvard, '85-6; Joint Ed. Classic Stud. (Cornell).—Hist. of Greek Noun Accent; Influence of Analogy in Lang.; Gen. Principles of Lang. Hist.

Private and Public Antiquities of Greeks. 2, 32.

Sem. Study of Inscriptions. 2, 32.

CHARLES E. BENNETT,

A.B.; Prof. of Latin Lang. and Lit.—Harvard, '81-2; Leipzig, '82-3; Berlin, '83-4; Heidelberg, '84; Assoc. Prof. Class. Phil., Nebraska Univ., '89; Prof. of Latin, Wisconsin Univ., '89-91; Prof. Class. Phil., Brown, '91-2.—Greek dialects and gram.; Ed. Xenophon's Helleniad.

Teachers' Training Course. 1, 32.

Syntax of the Latin cases (sem.). 2, 32.

The Republican Literature. 3, 32.

ALFRED EMERSON [see 14].

Modern Greek. 2, 12, O.-D.

GEORGE P. BRISTOL [see 2],

A.M.; Assoc. Prof. of Greek.—Johns Hopkins, Leipzig, Heidelberg.—Lysias, Early Greek Hist.

Attic Orators. 2, 32.

L. L. FORMAN,

A.B., Ph.D.; Instr. in Greek.

\*Aristophanes read; lects. on Greek comedy. 2, 32.

\*Adv. Greek Compos. 1, 32.

H. C. ELMER,

A.B., Ph.D., Johns Hopkins, 1888.

Adv. Lat. Compos. 1, 32.

W. A. HAMMOND [see 8].

Aristotle's Nichom. Ethics; Plato's Philebus. 2, 32.

Aristotle's Metaphysics. 1, 32.

#### 4. English Language and Literature.

*1 prize of \$60.*

HIRAM CORSON,

A.M., LL.D.; Prof. Eng. Lit.

English Literature. 5, 32.

19th cent. prose, excl. novels (sem.).

19th cent. novelists (sem.).

17th and 18th cent. prose, excl. nov. (sem.).

18th cent. novelists (sem.).



## Cornell — Continued.

## J. M. HART,

A.M., J.U.D., Göttingen, 1864; Prof. Rhetoric and English Philology.—Princeton, '63; Göttingen, '64; Asst. Prof. in Mod. Lang., Cornell, '68-72; Prof. Mod. Lang. and Engl. Lit., Cincinnati, '76-90.—German Universities; German Classics; Anglo-Sax. Lit.; Germanic Philology.

Icelandic. 2, 20, Ja.—My.

Gothic and Anglo-Saxon (el.). 3, 32.  
Philol. sem.: Early and mid. Engl.  
2-4, 32.

\*Sen. Rhetoric: Sem. Invention and Style. 3, 32.

## O. F. EMERSON,

Ph.D., 1891; Asst. Prof. Rhetoric and Engl. Philology.—Cornell, '88-92; Principal, Acad. of Iowa Coll., '85-8; Instr., Cornell, '89-92.—Shakespeare's Anthony and Cleopatra, Ithaca dialect.

Middle Engl. philol. 3, 32.

\*Hist. of Eng. lang. 2, 32.

\*Phonetics, esp. American English.  
1, 32.

## 5. Germanic Languages and Literatures.

*Department will direct the work of graduates in their chosen subjects other than those announced.*

## H. S. WHITE,

A.B., 1873; Prof. German Lang. and Lit., and Dean.—Berlin, Leipzig.—German Lit. (Leasing, Heine) and folk songs; text-books of German Lang.; Goethe.

Life and work of Walther v. der Vogelweide (sem.). 2, 32.

Schiller's lyrics. 3, 24, O.—Mr.

Deutsche Volkslieder. 3, 8, A.—My.

## W. T. HEWETT,

Ph.D., Cornell, 1879; Prof. German Lang. and Lit.—Athens, Heidelberg, '69-70; Leipzig, Leyden, '77-8; Berlin, '87-8; Mem. Frisian Soc. for Hist., Archæol. and Lit.; Mem. extraord. Soc. Frisian Lang. and Lit., etc.—Frisian Lang. and Lit.; German (esp. Goethe) Lit.; Hist. of Universities; Dutch Hist.

Goethe's Faust. 2, 24, O.—Mr.

Mid. High German. 2, 32.

Umland and Swabian Sch. 2, 8,  
A.—My.

## H. J. JONES,

Ph.D., Göttingen.

Old High German. 2, 20, Ja.—My.

## J. M. HART [see 4].

Germanic Philology.

## 6. Romance Languages and Literatures.

*Special collect. of Rható-Romanic lit. and lang., over 1,000 vols.*

## T. F. CRANE,

Ph.D., Princeton, 1874; Prof. Romance Langs. and Lits.—Princeton.—French: Lit. of 17th and 19th cents; Italian: Pop. lit., mediæval lit.

French society in 17th cent., esp. letter writing. 2, 32.

French criticism in 17th cent. (sem.).  
2, 32.

Orig. and devel. of French lang. and lit. to 17th cent. 1, 32.

Select. from Dante, Petrarch, Boccaccio; Early Ital. lit. 2, 32.

## MR. OTTO.

Romance philol., phonetics, etc.  
2, 32.

## MR. VERGAUVEN.

Readings from French Romantic School. 2, 32.

## 7. Comparative Language and Literature.

## B. I. WHEELER [see 2 and also 3].

Intro. to Science of Language.  
1, 32.

Gothic gram.; orig. of Germanic lang. 2, 20.

Philol. semin. 2, 32.

## 8. Philosophy and Ethics.

*The courses here given and those in 9 belong to the Susan Linn Sage School of Philosophy, richly endowed with \$200,000 besides a professorship, by H. W. Sage, of Ithaca. Included in the school are 8 officers of*

instruction. There is a well-equipped psychological laboratory. The department issues "The Philosophical Review." Kant library of 100 vols. Three fellowships worth \$400, and six scholarships worth \$200, are open to advanced students. [See also 9.]

J. G. SCHURMAN,

D.Sc.; President of the Univ., and Prof. Mental and Moral Philosophy.

Ethics. 2, 32.

Ethical sem. 1, 32.

Crit. Phil. of Kant (with Prof. Creighton). 2, 32.

C. M. TYLER,

A.M., D.D.; Prof. Hist. and Philos. Religion and Christian Ethics.—Union Theol. Sem.; Pastor var. churches.—var. Philos. articles.

Hist. of religions. 3, 32.

Christian ethics. 1, 32.

Philosophy of religion (sem.). 2, 32.

J. E. CREIGHTON,

Ph.D.; Assoc. Prof. Mod. Philos.

\*Hist. modern philosophy. 3, 32.

Post-Kantian idealism. 2, 32.

Metaphysical sem. (with Mr. Albee).

W. A. HAMMOND,

Ph.D., Leipzig, 1891; Asst. Prof. Ancient and Mediæval Philosophy.—Leipzig, '88-91; Inst. in Ancient Philos., Cornell, '91-2.—Notion of Virtue in Plato's Dialogues; Anc. and Mediæval Philos.

\*Hist. Greek and mediæval philos. 2, 32.

\*Dialogues of Plato and Metaphysics of Aristotle. 2, 32.

Aristotle: Nichom. Eth.; Plato: Philebus. 1, 32.

Metaphysics of Aristotle (Greek). 1, 32.

F. C. A. SCHILLER,

M.A., Oxford.

Spinoza's Ethics. 1, 12, O.-D.

Evolutionism with spec. ref. to Spencer. 3, 32.

E. ALBER,

A.B., Ph.D., Cornell, 1894; Instr. in Philos.

Hist. of Engl. Utilitarianism. 2, 32.

Leibnitz, Hume, Kant. 3, 32.

9. Psychology and Pedagogics.

[Cf. introd. in 8.]

*Lib. of witchcraft and diabolism*, 1,500 vols. and pam., 50 MSS.

S. G. WILLIAMS,

Ph.D.; Prof. of Institutes and Hist. of Education.—Principal of High Schools; Prof. Geology, Cornell.—Economic Geol.; Hist. Mod. Educ., etc.

Pedagogy (sem.). 1, 32.

\*Inst. of education. 3, 32.

Hist. of education. 2, 32.

E. B. TITCHENER,

Ph.D., Leipzig, 1892; Asst. Prof. Psychol. and Dir. Psychol. Lab.—Oxford, '89-90; Leipzig, '90-2; Extension Lect. in Biol., Oxford, '92.—Leipzig School of Exper. Psychol., Chronometry, Psychological optics, etc.

\*Adv. psychology. 3, 32.

Psychol. optics, or Acoustics. 1, 32.

Adv. Probs. in exp. psychol. 1, 32.

Psychol. sem. Weekly.

Experimental psychol. 2, 32.

Mental pathology. 1, 32.

10. History and Politics.

*President White Hist. Lib. of about 20,000 bound volumes and 3,000 pamphlets, esp. rich in works on period of Reformation, English and French Revolutions, Am. Civil War, and Hist. of Superstition; also Sparks Lib. of over 5,000 vols. and 4,000 pam. on Hist. of Am.; and May collection of 1,000 vols. and 2,000 pam. on Slavery. 2 fellowships of \$500 and \$400.*

M. C. TYLER,

A.B., L.H.D., Columbia; Prof. American Hist.—Prof. English Lit., U. of Mich., 1867-81.—Hist. Am. Lit.; Life of Patrick Henry.

\*Am. constitut. hist. (sem.). 2, 32.

Am. hist. seminary. 2, 32.

\*Am. hist. from Revolution to present. 3, 32.

**Cornell — Continued.**

G. L. BURR,

A.B.; Prof. Anc. and Mediæval Hist. — Cornell, '81-4; Leipzig, '84-5; Paris, '85-6; Zürich, '86; Cornell: Instr. in Mod. Hist., '81-4; Instr. Anglo-Saxon, '86-7; Instr. in Mediæv. and Mod. Hist., '88-9; Asst. Prof. Hist., '89-91; Assoc. Prof., '91-2. — Reformation, relig. persecution, superstition.

Paleography and diplomatics; study of MSS. 2, 12, Ja.-Mr.

Excommunication in Mediæval England (sem.). 2, 8, A.-My.

Reading of med. chroniclers, Nithard. 2, 12, O.-D.

Beginnings of History. Oriental hist. 1, 32.

J. W. JENKS,

Ph.D.; Prof. Political Economy and Civil and Social Institutions.

Polit. institut., esp. in U.S. 3, 32.

Hist. polit. ideas. 1, 32.

Seminary in politics. 2, 32.

[All other departments of Cornell will be found in their proper places.]

# THE CAMBRIDGE SCHOOL

A Private School for Young Ladies,

WAS organized for the purpose of making the advantages of Boston and Cambridge of service to girls and young women who seek the completest education. The corps of instructors represents Harvard, Radcliffe, and other colleges. It is intended to adapt the instruction to the needs of each pupil, and to use those modern methods only which have stood the test of experience.

English is studied with the same systematic method that is used in classical work, and the first position is given to it because it is our instrument for acquiring other learning and wisdom, and for communicating them. The various courses are conducted with a view to their influence upon one another, and it is the particular aim to make the written expression of thought as natural as the spoken.

Preparation for college is given in the most approved method to those who desire it. Graduates of other schools may continue their work much beyond that limit.

Margaret Winthrop Hall and Howells House are the Residences, and in them young ladies from a distance are provided with the comforts of home. *Young people cannot be cultivated in masses*, and therefore the school permits but a small number in each house, under the special care of ladies who are not teachers, their only duty being to ensure the comfort and training of those committed to them. Cultivation and refinement do not necessarily come from intellectual work, and it is the duty of the lady of each house to promote their development.

The school building is new, and being well ventilated and open to the light and air *on all sides*, is cheerful and healthful.

Mr. Arthur Gilman is Director of The Cambridge School. He may be addressed at No. 79 Brattle Street, Cambridge, Mass. The Manual of the School gives further particulars.

# HENRY HOLT & CO.'S

## BOOKS FOR GRADUATE COURSES.

**NEW EDUCATIONAL CATALOGUE FREE**, containing accounts of many books suitable for Graduate Courses, including—

**SCIENCE**—Bumpus' *Laboratory Course in Invertebrate Zoology*. Teachers' price, \$1.00; postage, 8 cents.—Howell's *Dissection of the Dog*. Teachers' price, \$1.00; postage, 7 cents.—Newcomb & Holden's *Advanced Astronomy*. Teachers' price, \$2.00; postage, 23 cents.—Noyes' *Qualitative Analysis*. Teachers' price, 80 cents; postage, 5 cents.—Packard's *Study of Insects*. Teachers' price, \$4.50; postage, 34 cents.—Packard's *Comparative Embryology*. Teachers' price, \$2.00; postage, 12 cents.—William's *Crystallography*. Teachers' price, \$1.25; postage, 11 cents.—Zimmermann's *Botanic Microtechnique*. Teachers' price, \$2.50; postage, 15 cents.

**MATHEMATICS**.—Newcomb's *Analytic Geometry*. Teachers' price, \$1.20; postage, 10 cents.—Newcomb's *Calculus*. Teachers' price, \$1.50; postage, 10 cents.

**HISTORY, ETC.**—Durny's *Middle Ages*. Teachers' price, \$1.60; postage, 14 cents.—Durny's *Modern Times (1453-1789)*. Teachers' price, \$1.60; postage, 14 cents.—Fyffe's *Modern Europe (1792-1878)*, 3 vols. Teachers' price, \$2.00, per vol.; postage, 22 cents.—Gallaudet's *International Law*. Teachers' price, \$1.30; postage, 13 cents.—Gardiner & Mullinger's *English History for Students*. (Over half devoted to bibliography.) Teachers' price, \$1.80; postage, 20 cents.—Johnston's *American Politics*. Teachers' price, 80 cents; postage, 7 cents.—Porter's *Constitutional History of the United States*. Teachers' price, \$1.20; postage, 13 cents.—Roscher's *Political Economy*. 2 vols. Teachers' price, \$6.30 (not sent by mail).—Sumner's *Problems in Political Economy*. Teachers' price, \$1.00; postage, 6 cents.—Walker's *Advanced Political Economy*. Teachers' price, \$2.00; postage, 21 cents.—Walker's *Wages*. Teachers' price, \$1.60; postage, 17 cents.—Walker's *Money*. Teachers' price, \$1.60; postage, 17 cents.

**PHILOSOPHY**.—J. M. Baldwin's *Psychology, Vol. I, Senses and Intellect*. Teachers' price, \$1.80; Vol. II, *Feeling and Will*. Teachers' price, \$2.00; postage, 20 cents.—Falckenberg's *Modern Philosophy*. Teachers' price, \$3.50; postage, 25 cents.—James' *Advanced Psychology*, 2 Vols. Teachers' price, \$2.80; postage, 52 cents.—The *Philosophy of Descartes*\* (Torrey.) Teachers' price, \$1.50; postage, 12 cents.—The *Philosophy of Hume*\* (Aikins.) Teachers' price, \$1.00; postage, 11 cents.—The *Philosophy of Kant*\* (Watson.) Teachers' price, \$1.75; postage, 12 cents.—The *Philosophy of Locke*\* (Russell.) Teachers' price, \$1.00; postage, 10 cents.—The *Philosophy of Reid*\* (Sneath.) Teachers' price, \$1.50; postage, 12 cents.—The *Philosophy of Spinoza*\* (Fullerton.) Teachers' price, \$1.20; postage, 10 cents.—Zeller's *Greek Philosophy*. Teachers' price, \$1.40; postage, 11 cents.

Over 250 Modern Language Books, English, German, French, Spanish and Italian.

Peck's *Suetonius Lives of the Cæsars, Book II*. Teachers' price, \$1.20; postage, 10 cents.

A List of Books in General Literature, containing many on History and Sociology; free on application.

**HENRY HOLT & CO., 29 West 23d Street, New York.**

\* A brief exposition of his system in his own words with Introduction and Notes.

Two Books for Colleges and Universities.

---

## THE ODYSSEY OF HOMER,

TRANSLATED INTO ENGLISH PROSE

By GEORGE HERBERT PALMER, Professor of Philosophy in Harvard University.

**LIBRARY EDITION.** In one volume, crown 8vo, gilt top, 387 pages, \$1.50, postpaid. To Teachers, \$1.28, postpaid.

**STUDENT'S EDITION.** In one volume, 12mo, 387 pages, \$1.00, net.

A special edition of the first XII. Books alone has also been published in which for comparison the Greek text is given on the alternate pages. In one volume, 8vo, 433 pages, orange edges, \$2.50, net.

### AN EPILOGUE

OF

## Ancient, Mediæval, and Modern History.

By CARL PLOETZ.

Translated, with extensive additions, by WILLIAM H. TILLINGHAST, Assistant in the Harvard University Library. With very full Index. Crown 8vo, 630 pages, \$3.00. To Teachers, \$2.55, postpaid.

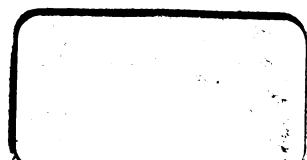
This work is not intended for an ordinary text-book, to be committed to memory or to be used for recitations, but it will be found exceedingly useful as a guide for students wherever history is taught by lectures, or by any other method than by memoriter recitations. The Index is very full and minute, covering fifty-five double-column pages, so as to put all the contents of the work at the instant service of the reader.

Circulations of these books, with sample pages and letters of Recommendation from prominent educators, will be sent to any address on application.

**HOUGHTON, MIFFLIN & CO.,**

4 PARK STREET, BOSTON; 11 EAST 17TH STREET, NEW YORK;  
28 LAKESIDE BUILDING, CHICAGO.





COLLEGE LIBRARY  
1987-88  
1984



Widener Library



3 2044 083 801 654